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DEPARTMENT OF COMMERCE

BUREAU OF FISHERIES

HUGH M. SMITH, Commissioner

AN ANALYTICAL SUBJECT BIBLIOGRAPHY OF THE  
PUBLICATIONS OF THE BUREAU OF FISHERIES  
1871-1920

By ROSE M. E. MACDONALD

*Librarian, U. S. Bureau of Fisheries*

APPENDIX V TO THE REPORT OF THE U. S. COMMISSIONER  
OF FISHERIES FOR 1920



Bureau of Fisheries Document No. 899

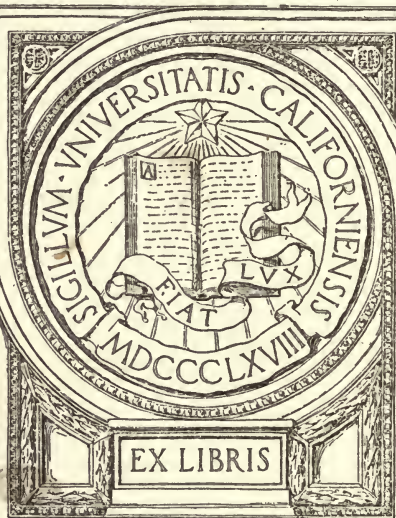
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DEPARTMENT OF COMMERCE  
BUREAU OF FISHERIES  
WASHINGTON, D. C.  
JUN 15 1920  
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LETTER OF TRANSMITTAL.

DEPARTMENT OF COMMERCE,  
BUREAU OF FISHERIES,  
Washington, June 15, 1920.

Hon. HUGH M. SMITH,  
*Commissioner of Fisheries.*

DEAR SIR: I have the honor to submit herewith "An Analytical Subject Bibliography of the Publications of the Bureau of Fisheries, 1871-1920," being an analysis of the reports, appendixes, special papers, bulletins, economic circulars, occasional papers, and of "The Fisheries and Fishery Industries."

Covering the investigations of the Bureau since its incipency, it shows, in a measure, the work of a number of men of no mean fame in the field of biology. Much of it was pioneer work, which modern investigators can not afford to ignore.

The work here transmitted was started in 1912, as a catalogue of the publications of the Bureau. Later it was decided to assemble these titles under subjects pertinent to the work of the Bureau.

In compiling this subject index it was found that references to many valuable results would be lost unless a meticulous analysis of the publications be made. Each paper was therefore examined searchingly, and when the discussion was found to be of sufficient detail, a title for it was made. For instance, of the 141 titles of *Food of fishes*, 87 were made from the subject contents.

It had long been realized and often stated by those cognizant of the ideals of the Bureau that there was a veritable fund of valuable information in the publications of the Bureau, which was lost because the modern investigator knew not how to find it. It is hoped that this work will prove a valuable key.

The arrangement differs from that usually employed in bibliographies, the object having been to arrange it from the viewpoint of the investigator. Into a work of such detail, the preparation of which has necessarily extended over several years, some mistakes will doubtless appear. For these I am quite willing to assume responsibility, knowing that a bibliography of such magnitude can not be perfect.

In its entirety it stands as a slight tribute to the builders of the Bureau of Fisheries and to all who have labored with them. It has been a pleasure and an inspiration to do the work, and I hope it may prove of value. I have the honor to be,

Very respectfully,

ROSE M. E. MACDONALD, *Librarian.*

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# AN ANALYTICAL SUBJECT BIBLIOGRAPHY OF THE PUBLICATIONS OF THE BUREAU OF FISHERIES, 1871-1920.

By ROSE M. E. MACDONALD, *Librarian.*

## GENERAL CONTENTS.<sup>a</sup>

	Page.
Letter of transmittal.....	2
Explanatory note.....	4
Part 1.—United States Bureau of Fisheries.....	5
Part 2.—Voyages and investigations.....	11
Part 3.—Fishes.....	23
Sec. 1.—Biology of fishes.....	25
Sec. 2.—Fish culture.....	97
Sec. 3.—Fisheries and fishery industries.....	141
Part 4.—Mammals.....	223
Part 5.—Miscellaneous vertebrates.....	231
Part 6.—Mollusca.....	235
Sec. 1.—Oysters.....	237
Sec. 2.—Mollusks (not including oysters).....	255
Part 7.—Crustacea.....	263
Part 8.—Sponges.....	271
Part 9.—Miscellaneous invertebrates.....	275
Part 10.—Botany.....	281
Part 11.—Chemistry.....	285
Part 12.—Education and research.....	289
Part 13.—Unclassified.....	297
Index to authors.....	299

<sup>a</sup> Analytical subject table of contents is given with each part, except in parts 3 and 6, where it is given with each section.

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## EXPLANATORY NOTE.

The bibliography is composed of two styles of titles, those given just as they appear in the publications and those resulting from the analysis of each article. For the first style, cards have been printed by the Library of Congress from copy prepared in this Bureau. These cards may be purchased from the Library of Congress, the card wanted to be designated by the call number, which appears in the right-hand margin of each page. The second style, or "made titles," are designated by brackets and have no printed cards.

The arrangement under each subject is by authors listed alphabetically. The arrangement under each author is chronological.

Work or investigations covered in the annual report of the Commissioner are combined under the authorship of the United States Commissioner of Fisheries. To give the name of the Commissioner sponsoring the work would frequently destroy the chronological arrangement. For those who may care to cite the Commissioner's name the following list is given:

Baird, Spencer Fullerton, 1871-1887.

Goode, G. Brown, 1887-1888.

McDonald, Marshall, 1888-1895.

Gill, Herbert A. (acting), 1895-1896.

Brice, John J., 1896-1898.

Bowers, George M., 1898-1913.

Smith, Hugh M., 1913-

For the purpose of chronological arrangement, divisional reports are given under the authorship of the United States Bureau of Fisheries.

In analyzing reports (meaning also appendixes and special papers) and bulletins, the analysis in each case has been of the bound volume, and the date of issue given for each title is therefore that of the volume. In the majority of cases, however, the articles comprising the bound volume are first issued as separates. In all such instances, in addition to the date of issue of the volume, the date of issue of the article as a separate is given in italics. The one exception is in the treatment of the annual reports, page 7, where the date of issue of the separate only is given.

Being an analysis of publications of the Bureau of Fisheries only, which are always printed in Washington and, with few exceptions, by the Government Printing Office, the place of publication is omitted in every case, and the printer given only in the exceptions.

REPORT OF THE UNITED STATES BUREAU OF FISHERIES

PART 1.—UNITED STATES BUREAU OF FISHERIES

CONTENTS

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**Part 1.—UNITED STATES BUREAU OF FISHERIES.**

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## Part 1.—UNITED STATES BUREAU OF FISHERIES.

### CONTENTS.<sup>a</sup>

	Page.
History.....	7
Annual reports.....	7
Publications.....	7
Laboratories.....	8
Beaufort, N. C.....	8
History.....	8
Brief mention of work.....	8
Résumé of investigations.....	8
Fairport, Iowa.....	8
History.....	8
Brief mention of work.....	9
Key West, Fla.....	9
History.....	9
Brief mention of work.....	9
Woods Hole, Mass.....	9
History.....	9
Brief mention of work.....	9
Résumé of investigations.....	9

<sup>a</sup> For "Fish-cultural stations" and "Cars" see Part 3, Section 2. For "Vessels" see Part 2.

## PART 1.—UNITED STATES BUREAU OF FISHERIES.

### HISTORY.

- Brice, John J.:** The work of the United States Fish commission from December 1, 1896, to November 3, 1897. Bulletin, 1897 (1898), vol. XVII, p. 135-139. *Doc.* 354 issued Feb. 4, 1898. F12-243
- Goode, George Brown:** The first decade of the United States Fish commission, its plan of work and accomplished results, scientific and economical. Report, 1880 (1883), p. 53-62. F16-23
- Ibid. Bulletin, 1881 (1883), vol. II, p. 169-178. F12-356
- Smiley, Charles Wesley:** Four tables, showing the amount of public money appropriated for carrying on the United States Commission of fisheries, and the various State commissions, from 1865 to 1882, inclusive. Bulletin, 1883 (1883), vol. III, p. 140-152. F18-122
- The organization and personnel of the United States Fish commission, June 1, 1883. Bulletin, 1883 (1883), vol. III, p. 115-116. F18-117
- Smith, Hugh M.:** The United States Bureau of fisheries, its establishment, functions, organization, operations, and achievements. 80 p., front. (ports), illus. *Doc.* 641 issued September, 1908. 8-35683
- U. S. Bureau of Fisheries:** Directory of officers, collaborators, employees, etc., of the Smithsonian institution, National museum, Geological survey, and Fish commission. 8 p. *Doc.* 39 issued June, 1882. F14-134
- U. S. Commission of fish and fisheries. Laws and regulations. 32 p. *Doc.* 49 issued June 26, 1882. F12-240
- [Origin and functions.] Printed for distribution at the Lewis and Clark centennial exposition, Portland, Oregon, 1905, by the U. S. Department of commerce and labor, section of the Bureau of fisheries. 6 p., illus.
- ~~xxx~~ [Origin and functions.] Printed for distribution at the Ter-Centennial Exposition, near Norfolk, Va., 1907, by the U. S. Bureau of fisheries. 1907. 10 p.; illus.

### ANNUAL REPORTS.

- U. S. Commissioner of Fisheries:** Annual report, 1871 and 1872, *Doc.* 3 issued 1873, 1872 and 1873, *Doc.* 4 issued 1874; 1873-74 and 1874-75, *Doc.* 15 issued July 24, 1876; 1875 and 1876, *Doc.* 17 issued 1879; 1877, *Doc.* 25 issued Oct. 17, 1879; 1878; *Doc.* 28, issued 1880; 1879, *Doc.* 46 issued June, 1882; 1880, *Doc.* 62 issued 1883; 1881, *Doc.* 65 issued Jan. 22, 1884; 1882, *Doc.* 77 issued Aug. 15, 1884; 1883, *Doc.* 95 issued Dec. 19, 1885; 1884, *Doc.* 108 issued Nov. 24, 1886; 1885, *Doc.* 115 issued May 16, 1887; 1886, *Doc.* 134 issued 1889; 1887, *Doc.* 176 issued Dec. 1, 1891; 1888-89, *Doc.* 192 issued 1893; 1889-1891, *Doc.* 213 issued 1893; 1892, *Doc.* 283 issued Dec. 26, 1894; 1893, *Doc.* 298 issued May 28, 1896; 1894, *Doc.* 315 issued 1896; 1895, *Doc.* 331 issued Jan. 6, 1897; 1896, *Doc.* 337 issued May 29, 1897; 1897, *Doc.* 344 issued Feb. 21, 1898; 1898, *Doc.* 398 issued Mar. 16, 1899; 1899, *Doc.* 430 issued Sept. 8, 1900; 1900, *Doc.* 450 issued Dec. 15, 1900; 1901, *Doc.* 481 issued June 30, 1902; 1902, *Doc.* 524 issued Apr. 16, 1903; 1903, *Doc.* 548 issued May 9, 1904; 1904, *Doc.* 553 issued Jan. 11, 1905; 1905, *Doc.* 594 issued Jan. 19, 1906; 1906, *Doc.* 608 issued Dec. 31, 1906; 1907, *Doc.* 629 issued Dec. 13, 1907; 1908, *Doc.* 642 issued Dec. 23, 1908; 1909, *Doc.* 727 issued Feb. 12, 1910; 1910, *Doc.* 734 issued Nov. 25, 1910; 1911, *Doc.* 753 issued May 4, 1912; 1912, *Doc.* 772 issued Feb. 1, 1913; 1913, *Doc.* 78 issued Jan. 27, 1914; 1914, *Doc.* 807 issued Dec. 9, 1914; 1915, *Doc.* 827 issued Dec. 24, 1915; 1916, *Doc.* 836 issued Dec. 16, 1916; 1917, *Doc.* 845 issued Dec. 6, 1917; 1918, *Doc.* 862 issued Dec. 11, 1918; 1919, *Doc.* 877 issued Dec. 11, 1919; 1920, *Doc.* 894 issued Dec. 16, 1920. F10-2-3

### PUBLICATIONS.

- Seudder, Charles W.:** A list of the blank forms, circulars, and minor publications of the U. S. Fish commission from August 1, 1883, to August, 1884. Bulletin, 1884 (1884), vol. IV, p. 397-400. F18-350
- List of publications of the United States Fish commission from its establishment in February, 1871, to February, 1896. Report, 1894 (1896), p. 617-706. *Doc.* 329 issued Dec. 14, 1896.



**Smiley, Charles Wesley:** List of papers relating to the work of the United States Fish commission from its organization in 1871, to July 1, 1883, and which have been published under the direction of the United States Fish commission, National museum, and Tenth census, together with a topical synopsis of the titles. Bulletin, 1883 (1883), vol. III, p. 1-85. F18-114

— A list of the blank forms, circulars, and minor publications of the United States Fish commission from its organization in 1871 to August 1, 1883. Bulletin, 1883 (1883), vol. III, p. 129-148. F18-121

— Chronological list of pamphlet publications of the U. S. Fish commission from its organization in 1871 to January, 1885. Bulletin, 1885 (1885), vol. V, p. 41-48. F18-376

**U. S. Bureau of Fisheries:** Publications of the United States Commission of fish and fisheries available for distribution on June 30, 1897. Appendix 7, Report, 1896 (1897), p. 343-356. *Doc. 354 issued Feb. 4, 1898.*

— Publications of the United States Commission of fish and fisheries available for distribution on March 1, 1899. Report, 1899 (1900), p. 313-327. *Doc. 406 issued Mar. 28, 1899.*

— Publications of the United States Commission of fish and fisheries available for distribution on June 30, 1903. Report, 1903 (1905), p. 529-551. *Doc. 552 issued Oct. 27, 1904.*

— List of publications of the Bureau of fisheries available for distribution. *Doc. 614 issued Sept. 4, 1907; Jan. 23, 1908; Apr. 25, 1908; Dec. 21, 1908; Mar. 20, 1909; May 7, 1910; Feb. 19, 1911; Aug. 15, 1913; Oct. 20, 1914; July 17, 1915; May 26, 1916.*

## LABORATORIES.

### BEAUFORT, N. C.

#### HISTORY.

**U. S. Bureau of Fisheries:** The Bureau of fisheries and its biological station at Beaufort, N. C. 1916. 11 p., illus. [Occasional papers.] F16-104

**U. S. Commissioner of Fisheries:** [Establishment of station.] Report, 1901 (1902), p. 14-15.

— [Description of laboratory.] Report, 1903 (1905), p. 14-15, illus.

— [Improvements and repairs.] Report, 1915 (1917), p. 34-35.

#### BRIEF MENTION OF WORK.

**U. S. Commissioner of Fisheries:** Report, 1905 (1907), p. 26; 1906 (1908), p. 15; 1908 (1910), p. 11; 1909 (1911), p. 16; 1910 (1911), p. 19; 1911 (1913), p. 23; 1912 (1914), p. 57; 1913 (1914), p. 31-32; 1915 (1917), p. 35; 1918 (1920), p. 28; 1919 (1921), p. 29.

#### RÉSUMÉ OF INVESTIGATIONS.

**Smith, Hugh McCormick:** [Investigation for 1898-1903.] Report, 1899 (1900), p. CXLII-CXLIII; 1900 (1901), p. 125-126; 1901 (1902), p. 131-132; 1902 (1904), p. 138; 1903 (1905), p. 99-100; 1904 (1905), p. 118-120.

**U. S. Commissioner of Fisheries:** [Report of investigation for 1906.] Report, 1907 (1909), p. 12-13.

— [Report of investigations for 1913.] Report, 1914 (1915), p. 68-69.

— [Service of the Beaufort laboratory.] Report, 1916 (1917), p. 46-47.

### FAIRPORT, IOWA.

#### HISTORY.

**Coker, Robert Ervin:** The Fairport fisheries biological station: its equipment, organization, and functions. Bulletin, 1914 (1916), vol. XXXIV, p. 383-405, illus., pl. LXXVI-LXXXI. *Doc. 826 issued July 7, 1916.* F16-131

— The Fisheries biological station at Fairport, Iowa. Appendix I, Report, 1920 (192-). *Doc. 895 issued 1921.*

**U. S. Commissioner of Fisheries:** [Fisheries laboratory at Fairport.] Report, 1914 (1915), p. 69-70; 1915 (1917), p. 33-34.

— [Service of Fairport laboratory.] Report, 1916 (1917), p. 47-48.

— [Destruction by fire.] Report, 1918 (1920), p. 28.

**Wilson, Charles Branch:** [Description of ponds at Fairport.] Bulletin, 1917-18 (1921), vol. XXXVI, p. 186-188.

## BRIEF MENTION OF WORK.

**U. S. Commissioner of Fisheries:** Report, 1911 (1913), p. 20; 1912 (1914), p. 57; 1913 (1914), p. 32; 1916 (1917), p. 47-48; 1917 (1919), p. 87; 1918 (1920), p. 28; 1919 (1921), p. 28.

## KEY WEST, FLA.

## HISTORY.

**U. S. Commissioner of Fisheries:** [Acquisition of land and plans for laboratory.] Report, 1916 (1917), p. 47.  
 ——— [Construction started.] Report, 1917 (1919), p. 87.

## BRIEF MENTION OF WORK.

**U. S. Commissioner of Fisheries:** Report, 1918 (1920), p. 28; 1919 (1921), p. 28.

## WOODS HOLE, MASS.

## HISTORY.

- Baird, Spencer Fullerton:** The Woods Hole station. (Records, inception, rise, progress, and current condition.) Report, 1882 (1884), p. XXXVIII-XLI; 1883 (1885), p. LIII-LVI; 1884 (1886), p. XXXVII-XXXIX; 1885 (1887), p. XLIX-LI.
- Kidder, Jerome Henry:** Report upon the water supply of the Fish commission station at Wood's Holl, Massachusetts. Report, 1884 (1886), p. 215-221, illus., pl. F17-124
- Ravenel, William de Chastignier:** [Installation of aquarium.] Report, 1895 (1896), p. 18.
- U. S. Bureau of Fisheries:** The Bureau of fisheries and its station at Woods Hole, Mass. 1915. 11 p., illus. [Occasional papers.] F15-77
- U. S. Commissioner of Fisheries:** Selection of Woods Hole. Report, 1875-1876 (1878), p. 4\*.
- Memoranda for the construction of a harbor of refuge at Woods Hole, Mass. (Circular typewritten and lithographed). 6 p. *Doc. 44 issued Apr. 28, 1882.*
- [Appropriation by Congress.] Report, 1882 (1884), p. XLI.
- [Purchase of land by private subscription; also donation of shore line.] Report, 1883 (1885), p. LIV.
- [Service of Woods Hole laboratory.] Report, 1916 (1917), p. 45-46.

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**U. S. Commissioner of Fisheries:** Report, 1885 (1887), p. 11; 1887 (1891), p. 16; 1896 (1898), p. 3; 1898 (1899), p. XVI; 1901 (1902), p. 10; 1906 (1908), p. 15; 1908 (1910), p. 11; 1909 (1911), p. 16; 1910 (1911), p. 19; 1911 (1913), p. 23; 1912 (1914), p. 58; 1913 (1914), p. 31; 1917 (1919), p. 86; 1918 (1920), p. 28; 1919 (1921), p. 28.

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- Evermann, Barton Warren:** [Report of investigations for 1903.] Report, 1904 (1905), p. 93-98.
- Rathbun, Richard:** [Report of investigations for 1887 to 1895.] Report, 1888-89 (1892), p. XLI-CVII; 1889-1891 (1893), p. 151-167; 1892 (1894), p. CIX-CX; 1893 (1895), p. 36-38; 1894 (1896), p. 96-99; 1895 (1896), p. 89-92; 1896 (1898), p. 116-118.
- Ryder, John Adam:** Report of operations at the laboratory of the U. S. Fish commission, Woods Hole, Mass., during the summer of 1888. Report, 1888-89 (1892), p. 513-522. *Doc. 181 issued June 30, 1892.* F12-223
- Smith, Hugh McCormick:** [Report of investigations for 1897 to 1903.] Report, 1897 (1898), p. CXX-CXXI; 1898 (1899), p. CXLIII-CXLV; 1899 (1900), p. 122-124; 1900 (1901), p. 122-124; 1901 (1902), p. 127-130; 1902 (1904), p. 136; 1903 (1905), p. 93-98.
- U. S. Commissioner of Fisheries:** [Report of investigations.] Report, 1905 (1907), p. 26-27; 1907 (1909), p. 12; 1914 (1915), p. 67-68; 1915 (1917), p. 34; 1916 (1917), p. 46.







# THE VOYAGES AND INVESTIGATIONS

OF THE U. S. S. ALBATROSS

IN THE PACIFIC OCEAN

## Part 2.—VOYAGES AND INVESTIGATIONS.

### CONTENTS

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## Part 2.—VOYAGES AND INVESTIGATIONS.

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Part 2.—VOYAGES AND INVESTIGATIONS.

CONTENTS.

	Page.
Vessels, description of.....	13
Albatross.....	13
Blue Light.....	13
Canvas Back.....	13
Fish Hawk.....	13
Grampus.....	13
Speedwell.....	14
Scientific apparatus and instruments.....	14
Investigations and results.....	14
Albatross.....	14
Résumé of work.....	16
Bache.....	16
Fish Hawk.....	16
Résumé of work.....	18
Grampus.....	18
Résumé of work.....	18
Lookout.....	19
Speedwell.....	19
Dredging and hydrographic records.....	19
General.....	19
Albatross.....	19
Fish Hawk.....	21
Limnology.....	21
Plankton.....	22
Potomology.....	22

## Part 2.—VOYAGES AND INVESTIGATIONS.

### VESSELS, DESCRIPTION OF.

#### ALBATROSS.

- Baird, George Washington:** Report on the working of the boilers and engine of the U. S. Fish commission steamer *Albatross*. Bulletin, 1884 (1884), vol. IV, p. 145-151. F18-256
- Annual report on the electric lighting of the United States steamer *Albatross*, December 31, 1883. Bulletin, 1884 (1884), vol. IV, p. 153-158, illus. Doc. 73 issued June 25, 1884. F13-90
- Tanner, Zera Luther:** Report on the work of the United States Fish commission steamer *Fish Hawk* for the year ending December 31, 1882, and on the construction of the steamer *Albatross*. Report, 1882 (1884), 32 p. F11-270
- Report on the construction and outfit of the United States Fish commission steamer *Albatross*. Report, 1883 (1885), p. 3-116, LV pl. Doc. 107 issued Sept. 7, 1886. F11-295
- Deep-sea exploration: a general description of the steamer *Albatross*, her appliances and methods. Bulletin, 1896 (1897), vol. XVI, p. 257-428, illus., LX pl. Doc. 330 issued June 24, 1897. F12-112
- U. S. Bureau of Fisheries:** Specifications for building the new boilers, etc., for the steamer *Albatross*. 25 p. Doc. 109 issued 1886.
- U. S. Commissioner of Fisheries:** [Proposed steamer *Albatross*.] Report, 1881 (1884), p. XXIII-XXIV.
- [Repairs to *Albatross*.] Report, 1899 (1900), p. XXVII.

#### BLUE LIGHT.

- U. S. Commissioner of Fisheries:** [Detail by Secretary of Navy of *Blue Light*.] Report, 1877 (1879), p. 2\*.

#### CANVAS BACK.

- U. S. Bureau of Fisheries:** Specifications for the paddle-wheel steam sein boat *Canvas Back*, for service in the river and bay fisheries. 12 p. Doc. 35 issued Feb. 18, 1882. F12-234
- U. S. Commissioner of Fisheries:** [*Canvas Back* loaned to State of Virginia.] Report, 1893 (1895), p. 9.

#### FISH HAWK.

- Tanner, Zera Luther:** Report on the construction and work in 1880 of the Fish commission steamer *Fish Hawk*. Report, 1881 (1884), 53 p. incl. tables, XVIII pl. Doc. 70 issued May 1, 1884. F12-234
- U. S. Commissioner of Fisheries:** Specifications for building the screw-steamer *Fish Hawk*. (U. S. Lighthouse establishment.) 46 p. Doc. 24 issued July, 1879. F12-235
- [Construction of the *Fish Hawk*.] Report, 1879 (1882), p. XVIII.
- [Description of the *Fish Hawk*.] Report, 1880 (1883), p. XXVI.

#### GRAMPUS.

- Baird, Spencer Fullerton:** [Description of the *Grampus*.] Report, 1885 (1887), p. XXIV-XXXII.
- Collins, Joseph William:** Report on the construction and equipment of the schooner *Grampus*. Report, 1887 (1891), p. 437-490, XVIII pl. Doc. 171 issued Aug. 24, 1891. F11-333
- Libbey, William:** [Description of the *Grampus*.] Bulletin, 1889 (1891), vol. IX, p. 393-394.



## SPEEDWELL.

U. S. Commissioner of Fisheries: [Detail of the *Speedwell*.] Report, 1877 (1879), p. 2\*-3\*.

## SCIENTIFIC APPARATUS AND INSTRUMENTS.

- Beardslee, Lester Anthony:** Experiments upon the time of exposure required for accurate observations on the Casella-Miller deep-sea thermometer. Report, 1877 (1879), p. 887-900. F16-125
- Casella, Louis P.:** Treatment of the Casella-Miller thermometer. Bulletin, 1884 (1884), vol. IV, p. 415. F18-351
- Kidder, Jerome H.:** Report on the thermometers of the U. S. Commission of fish and fisheries. Report, 1885 (1887), p. 185-214, illus. *Doc. 116 issued Oct. 7, 1887*. F11-300
- Libbey, William:** [Appliances used in the work of a physical investigation of the waters off the southern coast of New England.] Bulletin, 1889 (1891), vol. IX, p. 394-398.
- Rathbun, Richard:** Descriptive catalogue of the collection illustrating the scientific investigation of the sea and fresh waters. (Great International fisheries exhibition. London, 1883.) 109 p. *Doc. 69 issued Apr. 19, 1884*. F12-296
- Tanner, Zera Luther:** [Apparatus for deep-sea research, on the U. S. Fish commission steamer *Albatross*.] Report, 1883 (1885), p. 53-102.
- [Appliances and apparatus on the U. S. Fish commission steamer *Albatross*.] Report, 1886 (1889), p. 636-644.
- On the appliances for collecting pelagic organisms, with special reference to those employed by the U. S. Fish commission. Bulletin, 1894 (1895), vol. XIV, p. 143-151, pl. 9-12. *Doc. 289 issued Nov. 22, 1894*. F12-176
- [Description of Sigsbee's gravitating trap.] Bulletin, 1894 (1895), vol. XIV, p. 145-146.
- [Description of the Chun-Peterson tow net.] Bulletin, 1894 (1895), vol. XIV, p. 146-147.
- [Description of the Tanner intermediate tow net.] Bulletin, 1894 (1895), vol. XIV, p. 147-151.
- Deep-sea explorations: a general description of the steamer *Albatross*, and her appliances and methods. Bulletin, 1896 (1897), vol. XVI, p. 257-428, illus., LX pl. *Doc. 330 issued June 24, 1897*. F12-112
- Townsend, Charles Haskins:** Description of a closing tow net for submarine use at all depths. Report, 1894 (1896), p. 279-282. *Doc. 322 issued Nov. 28, 1896*. F11-188
- Verrill, Addison Emory:** Description of some of the apparatus used by the United States Commission of fish and fisheries in dredging off the New England coast. Report, 1880 (1883), p. 65-74, 4 pl. F16-303

## INVESTIGATIONS AND RESULTS.

- Karsten, Gustav:** On the scientific investigation of the Baltic Sea and the German Ocean. Report, 1878 (1880), p. 283-294. F16-162
- Martens, J. B.:** [First investigation of the depths of the ocean.] Bulletin, 1882 (1883), vol. II, p. 260-262.
- [The *Challenger* scientific voyage around the world.] Bulletin, 1882 (1883), vol. II, p. 262-264.
- Prussia. Kommission zur wissenschaftlichen Untersuchung der Deutschen Meere in Kiel:** Popular extracts from the investigations of the commission for the scientific examination of the German seas. [By H. A. Meyer, K. Möbius, G. Karsten, V. Hensen.] Report, 1879 (1882), p. 525-548. *Doc. 40 issued Apr. 3, 1882*. F11-214
- Sars, George Ossian:** Report on the Norwegian deep-sea expedition of 1878. Report, 1878 (1880), p. 257-281. F16-161

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- Alexander, Alvin Burton:** Notes on the boats, apparatus, and fishing methods employed by the natives of the South Sea islands, and results of fishing trials by the *Albatross*. Report, 1901 (1902), p. 741-829, pl. 30-37. *Doc. 509 issued Oct. 29, 1902*. F11-31
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### **Part 3.—FISHES.**

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**Section 1.—BIOLOGY OF FISHES.**

**Section 2.—FISH CULTURE.**

**Section 3.—FISHERIES AND FISHERY INDUSTRIES.**

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## Part 3.—FISHES.

### Section 1.—BIOLOGY OF FISHES.

#### CONTENTS.

	Page		Page.
General.....	27	Arrangement by families—Contd.	
Anatomy (including histology, morphology, and osteology).....	27	Teleostii—Continued.	
Embryology.....	27	Atherinidæ.....	53
Food.....	29	Balistidæ.....	53
Pathology and pathological condi- tions.....	34	Batrachoididæ.....	53
Diseases.....	34	Belonidæ.....	53
Mortality.....	35	Berycidæ.....	53
Parasites.....	37	Blenniidæ.....	53
Pollution.....	38	Bramidæ.....	53
Physiology.....	39	Branchiostomidæ.....	54
Age.....	39	Brotulidæ.....	54
Sense organs.....	39	Carangidæ.....	54
Metabolism.....	40	Catostomidæ.....	54
Growth.....	40	Centrarchidæ.....	54
Vitality.....	41	Chimæridæ.....	55
Weight.....	41	Chiridæ.....	55
Poisonous fishes.....	41	Cichlidæ.....	55
Regeneration.....	41	Clupeidæ.....	55
Oxygen requirements.....	41	Coryphænidæ.....	59
Variation.....	42	Cottidæ.....	59
Relations.....	42	Cyprinidæ.....	59
Enemies.....	42	Dalliidæ.....	62
Environmental factors.....	43	Diodontidæ.....	62
Temperature.....	43	Dorosomatidæ.....	62
Density and salinity.....	44	Echeneididæ.....	62
Habits and behavior.....	44	Elopidae.....	62
Miscellaneous.....	44	Embiotocidæ.....	63
Breeding habits.....	45	Engraulidæ.....	63
Color.....	47	Ephippidæ.....	63
Hibernation.....	47	Esocidæ.....	63
Migration.....	47	Fierasferidæ.....	63
Marking fish.....	49	Gadidæ.....	63
Predacious behavior.....	50	Gasterosteidæ.....	64
Arrangement by families.....	50	Gerridæ.....	65
Selachii.....	50	Gobiidæ.....	65
Marsipobranchii.....	51	Hexagrammidæ.....	65
Petromyzontidæ.....	51	Hippocampidæ.....	65
Teleostii.....	51	Hyodontidæ.....	65
Acipenseridæ.....	51	Icosteidæ.....	65
Albulidæ.....	51	Istophoridæ.....	65
Alepidosauridæ.....	52	Labridæ.....	65
Aleocephalidæ.....	52	Lampridæ.....	65
Amblyopsidæ.....	52	Lophiidæ.....	65
Amiidæ.....	52	Lepidosteidæ.....	65
Ammodytidæ.....	52	Leptocephalidæ.....	66
Anarhichadidæ.....	52	Liparididæ.....	66
Anguillidæ.....	52	Lobotidæ.....	66
Antennariidæ.....	53	Lophiidæ.....	66
		Lutianidæ.....	66
		Lycodidæ.....	66

## Arrangement by families—Contd.

## Teleostii—Continued.

Page.

Macrouridae.....	66
Malacanthidae.....	66
Malthidae.....	67
Merlucciidae.....	67
Microstomidae.....	67
Monacanthidae.....	67
Mugilidae.....	67
Mullidae.....	67
Muraenidae.....	67
Myxinidae.....	67
Nomeiidae.....	67
Ophidiidae.....	67
Orthogoriscidae.....	67
Osphromenidae.....	68
Ostraciidae.....	68
Paralepidae.....	68
Percidae.....	68
Pleuronectidae.....	68
Poeciliidae.....	69
Polyodontidae.....	69
Polynemidae.....	69
Pomacentridae.....	69
Pomatomidae.....	69
Pristipomatidae.....	70
Rachycentridae.....	70
Salmonidae.....	70
Scaridae.....	77
Sciaenidae.....	77
Scomberesocidae.....	78
Scombridae.....	78
Scopelidae.....	79
Scorpaenidae.....	79
Scytalinidae.....	79
Serranidae.....	79
Siluridae.....	80
Soleidae.....	81
Sparidae.....	81
Sphyrænidae.....	81
Stromateidae.....	81
Syngnathidae.....	81
Synodontidae.....	81
Tenthitidae.....	81
Tetrodontidae.....	81
Thymallidae.....	82
Trachypteridae.....	82
Trichiuridae.....	82
Triglidae.....	82
Xiphiidae.....	82
Zenidae.....	82

## Geographical distribution.

## United States.

General.....	82
Alabama.....	83
Alaska.....	83
Arkansas.....	83
California.....	83
Colorado.....	84
Delaware.....	84
District of Columbia.....	84
Florida.....	84
Georgia.....	85
Idaho.....	85
Illinois.....	85

## Geographical distribution—Contd.

## United States—Continued.

Page.

Indian Territory.....	85
Indiana.....	86
Iowa.....	86
Kentucky.....	86
Louisiana.....	86
Maine.....	86
Maryland.....	86
Massachusetts.....	87
Michigan.....	87
Minnesota.....	87
Mississippi.....	87
Missouri.....	87
Montana.....	88
Nebraska.....	88
Nevada.....	88
New Hampshire.....	88
New Jersey.....	88
New Mexico.....	88
New York.....	88
North Carolina.....	89
North Dakota.....	89
Ohio.....	89
Oregon.....	89
Tennessee.....	89
Texas.....	90
Utah.....	90
Vermont.....	90
Virginia.....	90
Washington.....	90
West Virginia.....	90
Wisconsin.....	90
Wyoming.....	90
South Atlantic States.....	91
Great Lakes.....	91
Colorado River.....	91
Columbia River.....	91
Delaware River.....	91
Maumee River.....	91
Mississippi River.....	91
Missouri River.....	91
St. Lawrence River.....	92
Gulf of Mexico.....	92
Canada.....	92
West Indies.....	92
Bahamas.....	92
Cuba.....	92
Porto Rico.....	92
Mexico.....	92
Central America.....	93
South America.....	93
Great Britain.....	93
Asia.....	93
India.....	93
Japan.....	93
Oceanica.....	93
Australia.....	93
Hawaiian Islands.....	93
Philippine Islands.....	94
Samoa.....	94
Oceans.....	94
Atlantic Ocean.....	94
Bering Sea.....	94
Pacific Ocean.....	95



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## Part 3.—FISHES—Continued.

### Section 2.—FISH CULTURE.

#### CONTENTS.

	Page.		Page.
General work of Bureau.....	99	Work of Bureau's stations—Contd.	
Work of Bureau's stations.....	100	Missouri: Neosho.....	106
General.....	100	Montana: Bozeman.....	106
Alaska.....	100	New Hampshire: Nashua.....	106
Afognak.....	100	New Jersey.....	106
Lituik Lake.....	100	Delaware River.....	106
Quadra Bay.....	100	Gloucester City.....	106
Yes Bay.....	100	New York.....	107
Arkansas: Mammoth Springs.....	100	Cape Vincent.....	107
California.....	100	Cold Spring Harbor.....	107
Baird.....	100	Roslyn.....	107
Battle Creek.....	101	North Carolina.....	107
Crooks Creek.....	101	Avoca.....	107
Fort Gaston.....	101	Edenton.....	107
Korbel.....	101	Weldon.....	107
Mill Creek.....	101	Ohio.....	107
Colorado: Leadville.....	101	Put in Bay.....	107
District of Columbia.....	101	Sandusky.....	107
Arsenal.....	101	Oregon.....	108
Central station.....	101	Baker Lake.....	108
Fish ponds.....	102	Clackamas.....	108
Navy yard.....	102	Rogue River.....	108
Georgia: Cold Spring.....	102	Salmon River.....	108
Illinois: Quincy.....	102	Siuslaw River.....	108
Iowa.....	102	Upper Clackamas.....	108
Manchester.....	102	Pennsylvania: Bristol.....	108
North McGregor.....	102	South Carolina: Orangeburg..	108
Kentucky: Louisville.....	102	South Dakota: Spearfish.....	108
Louisiana: Atchafalaya.....	102	Tennessee: Erwin.....	109
Maine.....	102	Texas: San Marcos.....	109
Boothbay Harbor.....	103	Utah: Springville.....	109
Bucksport.....	103	Vermont.....	109
Craig Brook.....	103	Holden.....	109
Grand Lake Stream.....	103	St. Johnsbury.....	109
Green Lake.....	103	Virginia.....	109
Maryland.....	104	Gunston.....	109
Bryans Point.....	104	Quantico.....	109
Druid Hill Park.....	104	Wytheville.....	109
Fort Washington.....	104	Washington.....	110
Havre de Grace.....	104	Big White Salmon.....	110
North East River.....	104	Birdsview.....	110
Massachusetts.....	104	Brinnon.....	110
Berkshire.....	104	Darrington.....	110
Gloucester.....	105	Duckabush.....	110
Woods Hole.....	105	Eagle Creek.....	110
Michigan.....	105	Little White Salmon.....	110
Alpena.....	105	Quilcene River.....	110
Charlevoix.....	105	Quinault Lake.....	110
Northville.....	105	Sultan.....	110
Minnesota.....	106	Tanner Creek.....	110
Duluth.....	106	West Virginia: White Sul-	
Homer.....	106	phur Springs.....	110
Mississippi: Tupelo.....	106	Wyoming: Saratoga.....	110

	Page.		Page.
Work of Bureau's cars .....	111	Introduced species—Continued.	
Fish culture by countries .....	111	Europe .....	118
United States .....	111	General .....	118
Alaska .....	111	Austria .....	119
Arizona .....	111	Belgium .....	119
California .....	112	Finland .....	119
Colorado .....	112	France .....	119
Florida .....	112	Germany .....	120
Illinois .....	112	Great Britain .....	120
Iowa .....	112	Italy .....	120
Maine .....	112	Netherlands .....	120
Michigan .....	112	Norway .....	121
Montana .....	112	Sweden .....	121
New Jersey .....	112	Switzerland .....	121
North Carolina .....	112	Oceanica .....	121
Oregon .....	112	Australia .....	121
Pennsylvania .....	113	New Zealand .....	121
South Dakota .....	113	Sandwich Islands .....	121
Vermont .....	113	Tasmania .....	122
Wyoming .....	113	Individual species .....	122
Pacific Coast .....	113	Alewife .....	122
Canada .....	113	Bass .....	122
Mexico .....	113	Buffalofish .....	122
Europe .....	113	Carp .....	122
General .....	113	Catfish .....	125
Austria .....	113	Cod .....	126
Belgium .....	114	Grappie .....	126
Denmark .....	114	Eels .....	126
Finland .....	114	Flounder .....	126
France .....	114	Goldfish .....	126
Germany .....	114	Grayling .....	127
Great Britain .....	115	Herring .....	127
Iceland .....	115	Mackerel .....	127
Italy .....	115	Menhaden .....	128
Norway .....	115	Mullet .....	128
Russia .....	115	Perch .....	128
Spain .....	116	Pike perch .....	128
Sweden .....	116	Rockfish .....	128
Switzerland .....	116	Salmon .....	129
Asia .....	116	Saibling .....	131
China .....	116	Sea Bass .....	132
Japan .....	116	Shad .....	132
Oceanica .....	116	Sheepshead .....	134
Hawaiian Islands .....	116	Smelts .....	134
New Zealand .....	116	Sturgeon .....	134
Malacca and Straits Set- tlements .....	116	Suckers .....	135
Introduced species .....	117	Squeteague .....	135
United States .....	117	Tautog .....	135
Ontario .....	118	Trout .....	135
Cuba .....	118	Whitefish .....	137
Mexico .....	118	Turbot .....	138
South America .....	118	Methods .....	138
Argentina .....	118	Aeration .....	138
Brazil .....	118	Apparatus and appliances .....	138
Chili .....	118	Miscellaneous .....	139



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## Part 3.—FISHES—Continued.

### Section 3.—FISHERIES AND FISHERY INDUSTRIES.

#### CONTENTS.

	Page.		Page.
Decrease of fishes .....	145	Statistics .....	150
United States .....	145	United States .....	150
General .....	145	General .....	150
California .....	146	Alabama .....	150
Florida .....	146	Alaska .....	151
Maine .....	146	Arkansas .....	151
Rhode Island .....	146	California .....	151
Utah .....	146	Connecticut .....	151
Washington .....	146	Delaware .....	151
Great Lakes .....	146	Florida .....	151
Gulf of St. Lawrence .....	146	Georgia .....	151
Ontario .....	147	Idaho .....	152
Europe .....	147	Illinois .....	152
Belgium .....	147	Indiana .....	152
France .....	147	Iowa .....	152
Germany .....	147	Kansas .....	152
Great Britain .....	147	Kentucky .....	152
Norway .....	147	Louisiana .....	152
Russia .....	147	Maine .....	152
Baltic Sea .....	147	Maryland .....	152
India .....	147	Massachusetts .....	153
Species .....	147	Michigan .....	153
Bluefish .....	147	Minnesota .....	153
Catfish .....	147	Mississippi .....	153
Grayling .....	148	Missouri .....	153
Herring .....	148	Nebraska .....	153
Mackerel .....	148	Nevada .....	153
Menhaden .....	148	New Hampshire .....	154
Pompano .....	148	New Jersey .....	154
Salmon .....	148	New York .....	154
Shad .....	148	North Carolina .....	154
Tilefish .....	148	Ohio .....	154
Fishermen .....	148	Oregon .....	154
United States .....	148	Pennsylvania .....	155
General .....	148	Rhode Island .....	155
Alaska .....	149	South Carolina .....	155
California .....	149	South Dakota .....	155
Florida .....	149	Tennessee .....	155
Texas .....	149	Texas .....	155
Great Lakes .....	149	Utah .....	155
Europe .....	149	Vermont .....	155
Iceland .....	149	Virginia .....	155
Sweden .....	149	Washington .....	156
India .....	149	West Virginia .....	156
Hawaiian Islands .....	149	Wisconsin .....	156
Special fisheries .....	149	Gulf States .....	156
Haddock .....	149	Middle Atlantic States .....	156
Halibut .....	149	New England States .....	156
Mackerel .....	149	Pacific Coast States .....	157
Menhaden .....	150	South Atlantic States .....	157
Salmon .....	150	Great Lakes .....	157
Sturgeon .....	150	Mississippi River .....	157
Mortality .....	150	Canada .....	157
		British Columbia .....	157
		Atlantic Ocean .....	158

	Page.		Page.
Statistics—Continued.		Fishways.....	164
Europe.....	158	United States.....	164
Austria.....	158	General.....	164
France.....	158	California.....	164
Norway.....	158	Illinois.....	164
Sweden.....	158	Montana.....	164
Special fisheries.....	158	Germany.....	165
Capelan.....	158	Fisheries considered geographi-	
Halibut.....	158	cally.....	165
Mackerel.....	158	United States.....	165
Menhaden.....	158	General.....	165
Shad.....	158	Alabama.....	166
Sturgeon.....	159	— Alaska.....	166
Fishing grounds.....	159	Arkansas.....	167
United States.....	159	California.....	167
General.....	159	Colorado.....	167
New England.....	159	Connecticut.....	167
Great Lakes.....	160	Delaware.....	167
Special.....	160	Florida.....	167
Cod.....	160	Georgia.....	168
Haddock.....	160	Illinois.....	168
Halibut.....	160	Louisiana.....	168
Mackerel.....	160	Maine.....	168
Menhaden.....	160	Maryland.....	168
Salmon.....	160	Massachusetts.....	168
Sturgeon.....	160	Michigan.....	169
Fish markets.....	160	Mississippi.....	169
Europe.....	160	New Hampshire.....	169
Germany.....	160	New Jersey.....	169
Great Britain.....	160	New York.....	169
Hawaiian Islands.....	161	North Carolina.....	169
Fish trade.....	161	Oregon.....	170
United States.....	161	Pennsylvania.....	170
General.....	161	Rhode Island.....	170
California.....	161	South Carolina.....	170
District of Columbia.....	161	Texas.....	170
Florida.....	161	Utah.....	170
Georgia.....	161	Vermont.....	171
Maine.....	161	Virginia.....	171
Massachusetts.....	161	Washington.....	171
New York.....	162	Atlantic States.....	171
Gulf States.....	162	Gulf States.....	171
Middle Atlantic States.....	162	New England States.....	171
New England States.....	162	Pacific States.....	172
Pacific coast.....	162	Interior waters.....	172
South Atlantic States.....	162	Lake St. Clair.....	173
Great Lakes.....	162	Lake Washington.....	173
Gulf of Mexico.....	162	Great Lakes.....	173
Porto Rico.....	162	Columbia River.....	173
Europe.....	163	Indian River.....	173
Germany.....	163	Mississippi River.....	173
Great Britain.....	163	Potomac River.....	173
Norway.....	163	Gulf of Mexico.....	174
White Sea.....	163	Gulf of St. Lawrence.....	174
Oceanica.....	163	Chesapeake Bay.....	174
Australia.....	163	Puget Sound.....	174
Hawaiian Islands.....	163	Canada.....	174
Special.....	163	General.....	174
Carp.....	163	British Columbia.....	175
Cod.....	163	Labrador.....	175
Goldfish.....	163	Newfoundland.....	175
Herring.....	163	Nova Scotia.....	175
Salmon.....	164	West Indies.....	175
Shad.....	164	Bahama Islands.....	175
Miscellaneous.....	164	Porto Rico.....	175



Fisheries, etc.—Continued.		Page.	Laws and legislation—Continued.		Page.
South America.....		175	Europe—Continued.		
General.....		175	Russia.....		184
British Guiana.....		175	Scotland.....		184
Peru.....		175	India.....		184
Europe.....		176	Hawaiian Islands.....		184
General.....		176	International.....		184
Austria.....		176	Species.....		185
Belgium.....		176	Bluefish.....		185
Denmark.....		176	Cod.....		185
France.....		176	Herring.....		185
Germany.....		176	Mackerel.....		185
Great Britain.....		176	Menhaden.....		185
Greece.....		177	Salmon.....		185
Iceland.....		177	Sardines.....		186
Italy.....		177	Sturgeon.....		186
Netherlands.....		178	Modus vivendi.....		186
Norway.....		178	Patents.....		186
Portugal.....		178	Treaties.....		186
Spain.....		179	Fishery methods.....		186
Sweden.....		179	United States.....		186
Asia.....		179	Apparatus and appliances.....		186
China.....		179	Fishing vessels.....		187
India.....		179	Nets, description of.....		188
Japan.....		179	Nets, gill.....		188
Siberia.....		180	Nets, fyke.....		188
Syria.....		180	Nets, purse.....		188
Africa.....		180	Nets, preservation of.....		189
Algeria.....		180	Trawls and trawling.....		189
Cape Colony.....		180	Europe.....		189
Oceanica.....		180	Apparatus and appliances.....		189
Australasia.....		180	Fishing vessels.....		189
Hawaiian Islands.....		180	Nets, description of.....		189
New Zealand.....		180	Nets, gill.....		189
Oceans.....		180	Nets, purse.....		190
Arctic Ocean.....		180	Trawls and trawling.....		190
Atlantic Ocean.....		180	India: Apparatus and appli-		
Indian Ocean.....		180	ances.....		190
Pacific Ocean.....		181	Special fisheries.....		190
Seas.....		181	United States.....		190
General.....		181	Alewife.....		190
Baltic Sea.....		181	General.....		190
Bering Sea.....		181	Maine.....		190
Caspian Sea.....		181	New England.....		190
North Sea.....		181	Atka fish: Alaska.....		190
South Sea.....		181	Barracuda: California.....		190
White Sea.....		181	Bass.....		190
Laws and legislation.....		181	General.....		190
United States.....		181	California.....		190
General.....		181	Carp.....		190
— Alaska.....		182	General.....		190
District of Columbia.....		182	Illinois.....		191
Maryland.....		183	Ohio.....		191
Massachusetts.....		183	Virginia.....		191
Michigan.....		183	Lake Erie.....		191
New Jersey.....		183	Catfish.....		191
Pennsylvania.....		183	General.....		191
Rhode Island.....		183	California.....		191
Washington.....		183	Louisiana.....		191
Great Lakes.....		184	Cod.....		191
Mississippi and Ohio Riv-			General.....		191
ers.....		184	Alaska.....		192
Europe.....		184	Massachusetts.....		192
Austria.....		184	Maine.....		192
Belgium.....		184	New England.....		193
Iceland.....		184	Chesapeake Bay.....		193
Italy.....		184	Pacific Coast.....		193

## Special fisheries—Continued.

## United States—Continued.

	Page.
Eel	193
Alaska	193
Maryland	193
Massachusetts	193
New York	193
Flounder	193
General	193
Massachusetts	193
Texas	193
Gourami	193
Grayfish	193
Haddock	194
General	194
New England	194
Halibut	194
General	194
Alaska	194
New England	194
Pacific coast	195
Bering Sea	195
Herring	195
General	195
Alaska	195
Maine	196
Massachusetts	196
Potomac River	196
Puget Sound	196
Kingfish: Florida	196
Mackerel	196
General	196
Florida	197
Massachusetts	197
New York	198
North Carolina	198
Texas	198
Virginia	198
New England	198
Pacific Coast	198
Gulf of St. Lawrence	198
Menhaden	198
General	198
Connecticut	199
Delaware	199
Florida	199
Maine	199
Maryland	199
Massachusetts	199
New Jersey	199
New York	199
North Carolina	199
Rhode Island	199
South Carolina	199
Virginia	199
Middle Atlantic States	200
Atlantic coast	200
Mullet	200
General	200
Florida	200
North Carolina	200
Gulf States	200
Pompano: Florida	200
Red snapper	200
General	200
Florida	200
Texas	200

## Special fisheries—Continued.

## United States—Continued.

	Page.
Red snapper—Contd.	
Gulf States	201
Gulf of Mexico	201
Cablefish	201
Alaska	201
Pacific coast	201
Salmon	201
General	201
Alaska	201
California	202
Connecticut	202
Idaho	202
Maine	203
Massachusetts	203
New York	203
Oregon	203
Virginia	203
Washington	203
New England	203
Pacific coast	203
Lake Champlain	204
Sardine	204
General	204
Maine	204
Pacific coast	204
Puget Sound	204
Scup: New England	204
Shad	204
General	204
Connecticut	205
Delaware	205
Florida	205
Georgia	205
Maine	205
Maryland	205
Massachusetts	205
New Hampshire	205
New York	206
North Carolina	206
Pennsylvania	206
Rhode Island	206
South Carolina	206
Virginia	206
Atlantic coast	206
Middle Atlantic States	207
Pacific coast	207
Chesapeake Bay	207
Gulf of Mexico	207
Ohio River	207
Potomac River	207
Mississippi River	207
Shark: Nantucket	207
Spot	207
Squeteague	207
Sturgeon	207
General	207
Delaware	208
Florida	208
Pacific coast	208
Columbia River	208
Swordfish	208
General	208
New England	208
Tilefish	208
Trout: Alaska	208



Special fisheries—Continued.		Special fisheries—Continued.	
United States—Continued.		Europe—Continued.	
Tuna: California.....	208	Salmon—Continued.	Page.
Whitefish.....	208	White Sea.....	212
Whiting.....	209	Sardine.....	212
Canada.....	209	Denmark.....	212
Alewife.....	209	France.....	212
Herring.....	209	Shark.....	212
General.....	209	Iceland.....	212
Labrador.....	209	Norway.....	212
Newfoundland.....	209	Sprat: Sweden.....	212
Mackerel.....	209	Japan: Carp.....	212
General.....	209	Hawaiian Islands.....	213
Labrador.....	209	Mullet.....	213
Salmon.....	209	Shark.....	213
Shad.....	209		
South America: Shad.....	209	Fishery products.....	213
Europe.....	209	Preservation of products.....	213
Brisling: Norway.....	209	Bait.....	213
Capelan: Norway.....	209	Collagen.....	213
Carp.....	210	Fertilizer.....	213
Austria.....	210	Glue.....	214
Germany.....	210	Ichthylepidin.....	214
Eel: Sweden.....	210	Isinglass.....	214
Flounders: Sweden.....	210	Oil.....	214
Halibut.....	210	Skins.....	215
Iceland.....	210	Stock feed.....	215
Norway.....	210	Products as food.....	215
Herring.....	210	Preparation.....	215
Germany.....	210	General.....	215
Great Britain.....	210	Alive.....	215
Iceland.....	210	Anchovies.....	216
Netherlands.....	210	Babracoted.....	216
Norway.....	211	Bloaters.....	216
Sweden.....	211	Canning.....	216
Baltic.....	211	Caviar.....	217
White Sea.....	211	Cooking.....	217
Mackerel.....	211	Dried.....	218
Great Britain.....	211	Fish eggs.....	219
Norway.....	211	Kipperd.....	219
Sweden.....	212	Klip fish.....	219
Baltic.....	212	Miscellaneous proc-	
Salmon.....	212	esses.....	219
France.....	212	Refrigeration.....	220
Germany.....	212	Salting.....	220
Sweden.....	212	Smoking.....	221
Baltic.....	212	Nutritive value.....	221

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## UNITED STATES.

## GENERAL.

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Part 4.—MAMMALS

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## Part 4.—MAMMALS.

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### CONTENTS.

---

	Page.
General.....	225
Embryology.....	226
Industries.....	226
Sealing.....	226
Whaling.....	228
Products.....	229
Preservation of products.....	229
General.....	229
Ambergris.....	229
Furs.....	229
Oils.....	229
Miscellaneous.....	229
Products as food.....	230
Legislation.....	230



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**Part 5.—MISCELLANEOUS VERTEBRATES**

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Part 5.—MISCELLANEOUS VERTEBRATES.

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CONTENTS.

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Reptiles and batrachians .....	Page. 233
Birds .....	234
232	



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**Part 6.—MOLLUSCA**

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**Section 1.—OYSTERS**

**Section 2.—MOLLUSKS (NOT INCLUDING OYSTERS)**

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## Part 6.—MOLLUSCA.

### Section 1.—OYSTERS.

#### CONTENTS.

	Page.		Page.
Bibliographies .....	238	Culture—Continued.	
General .....	238	Europe—Continued.	
Physiology .....	238	France .....	247
Nutrition .....	238	Germany .....	247
Growth .....	238	Holland .....	247
Food .....	238	Italy .....	248
Environmental factors .....	239	Netherlands .....	248
Currents and tides .....	239	Norway .....	248
Density .....	239	Portugal .....	248
Oxygen requirements .....	239	Spain .....	248
Salinity .....	239	Mediterranean .....	248
Temperature .....	240	Baltic .....	248
Pathology and pathological conditions .....	240	Japan .....	248
Diseases and pests .....	240	Oceanica .....	248
Mortality .....	240	Hawaii .....	248
Pollution .....	240	New Zealand .....	248
Enemies .....	240	Acclimatization .....	248
Abnormal coloration .....	241	Fisheries .....	249
Green .....	241	General .....	249
Red .....	242	United States .....	249
Embryology .....	242	Alabama .....	249
Anatomy .....	243	Alaska .....	249
Culture .....	243	California .....	249
General .....	243	Connecticut .....	250
United States .....	244	Delaware .....	250
General .....	244	Florida .....	250
Alabama .....	244	Louisiana .....	250
Alaska .....	244	Maryland .....	250
California .....	244	Massachusetts .....	251
Connecticut .....	244	Mississippi .....	251
Delaware .....	244	New Jersey .....	251
Florida .....	244	New York .....	251
Georgia .....	245	North Carolina .....	251
Louisiana .....	245	Rhode Island .....	251
Maryland .....	245	South Carolina .....	251
Massachusetts .....	245	Texas .....	251
Mississippi .....	245	Virginia .....	251
New Jersey .....	245	Washington .....	252
New York .....	245	Atlantic coast .....	252
North Carolina .....	246	Middle Atlantic .....	252
Rhode Island .....	246	New England .....	252
South Carolina .....	246	Pacific coast .....	252
Texas .....	246	Chesapeake Bay .....	252
Virginia .....	246	Europe .....	252
Washington .....	246	France .....	252
Pacific coast .....	246	Italy .....	253
Europe .....	247	Norway .....	253
General .....	247	Methods .....	253
Belgium .....	247	Preparation and value as food .....	253
England .....	247	Laws and legislation .....	253

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## Part 6.—MOLLUSCA—Continued.

### Section 2.—MOLLUSKS (NOT INCLUDING OYSTERS).

#### CONTENTS.

	Page.		Page.
General.....	255	Products.....	260
Habits.....	255	Buttons.....	260
Physiology.....	255	Shellfish as food.....	260
Nutrition.....	256	Miscellaneous.....	260
Food.....	256	Clams.....	260
Growth.....	256	Mussels.....	260
Environmental factors.....	256	Scallops.....	260
Pathology and pathological condi- tions.....	256	Squid.....	260
Mortality.....	256	Geographical distribution.....	260
Parasites.....	256	United States.....	260
Embryology.....	256	General.....	260
Anatomy.....	257	Arkansas.....	261
Culture.....	257	California.....	261
Clams.....	257	Illinois.....	261
Mussels.....	257	Indiana.....	261
Snails.....	258	Maine.....	261
Fisheries.....	258	Massachusetts.....	262
United States.....	258	Minnesota.....	262
Abalone.....	258	Missouri.....	262
Clams.....	258	New York.....	262
Mussels.....	258	Oklahoma.....	262
Pearl.....	259	Tennessee.....	262
Scallop.....	259	Texas.....	262
Squid.....	259	Rivers.....	262
Europe.....	259	Porto Rico.....	262
Legislation for mussels.....	259	Hawaiian Islands.....	262

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# Part 7.—CRUSTACEA

## CONTENTS

# Part 7.—CRUSTACEA

## Part 7.—CRUSTACEA.

### CONTENTS.

	Page.
General.....	265
Habits and behavior.....	265
Physiology.....	265
Temperature, physiological effect.....	266
Nutrition.....	266
Pathology.....	266
Diseases and pests.....	266
Enemies.....	266
Embryology.....	266
Culture.....	266
Crabs.....	266
Crawfish.....	267
Lobster.....	267
Shrimp.....	267
Fisheries.....	267
United States.....	267
Crabs.....	267
Crawfish.....	268
Lobster.....	268
Shrimp.....	268
Europe.....	268
Crabs.....	268
Lobster.....	269
Asia.....	269
Preservation.....	269
Crabs.....	269
Lobster.....	269
Shrimp.....	269
Legislation for lobster.....	269
Geographical distribution.....	269
United States.....	269
General.....	269
Alaska.....	269
North Carolina.....	269
Texas.....	270
New England.....	270
Lake Superior.....	270
Porto Rico.....	270
Japan.....	270
Oceanica.....	270
Hawaiian Islands.....	270
Philippine Islands.....	270



## Part 7.—CRUSTACEA.

### GENERAL.

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Part 8. SPONGES.

Part 8.—SPONGES

## Part 8.—SPONGES.

### CONTENTS.

	Page.
General.....	273
Culture.....	273
Fisheries.....	273
Legislation.....	274



## Part 8.—SPONGES.

### GENERAL.

- George, W. C., and H. V. Wilson:** Sponges of Beaufort (N. C.), Harbor and vicinity. Bulletin, 1917-18 (1921), vol. XXXVI, p. 129-179, pl. LVI-LXXVI. *Doc. 876 issued Dec. 29, 1919.* F20-1
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**Part 9.—MISCELLANEOUS INVERTEBRATES**

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## Part 9.—MISCELLANEOUS INVERTEBRATES.

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### CONTENTS.

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	Page.
General .....	277
Protozoa .....	277
Coelenterata .....	278
Plathelminthes .....	278
Rotifera .....	279
Coelhelminthes .....	279
Echinoderma .....	279



## Part 9.—MISCELLANEOUS INVERTEBRATES.

### GENERAL.

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Part 10.—BOTANY

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## Part 10.—BOTANY.

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### CONTENTS.

---

	Page.
Ecology.....	283
Carnivorous and insectivorous.....	283
Physiographic regions.....	283
Fresh water.....	283
Salt water.....	283
Algæ.....	284
Diatoms.....	284
Commercial use.....	284
Bacteria.....	284



## Part 10.—BOTANY.

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#### CARNIVOROUS AND INSECTIVOROUS.

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Part 11.—CHEMISTRY

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## Part 11.—CHEMISTRY.

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### CONTENTS.

---

Fish.....	Page. 287
Water.....	288



## Part 11.—CHEMISTRY.

### FISH.

- [Analysis of codfish—fresh, salt, and klipfish.] Report, 1885 (1887), p. 326.
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Part 12.—EDUCATION AND RESEARCH

CONTENTS

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## Part 12.—EDUCATION AND RESEARCH.

### CONTENTS.

	Page.
Collecting.....	291
Preservation.....	291
Technique.....	291
Aquariums.....	291
Biological stations.....	292
Expositions.....	292
General.....	292
United States.....	292
Atlanta: Cotton States and International Exposition.....	292
Buffalo: Pan-American Exposition.....	292
Chicago: World's Fair.....	292
Cincinnati: Centennial Exposition.....	293
Nashville: Tennessee Centennial Exposition.....	293
St. Louis: Louisiana Purchase Exposition.....	293
London: International Fishery Exposition.....	293
Edinburgh: International Fisheries Exhibition.....	293
Berlin: International Fischerei-ausstellung, 1880.....	294
Fishery congresses.....	294
World's Fisheries Congress, Chicago, 1893.....	294
National Fishery Congress, Tampa, 1898.....	295
International Fishery Congress, Fourth, Washington, 1908.....	295



## Part 12.—EDUCATION AND RESEARCH.

### COLLECTING.

- Baird, Spencer Fullerton:** Circulars in reference to shipping fresh fish and other animals. 4 p. *Doc. 29 issued 1881.* F14-135
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- Snyder, John Otterbein:** [Diagram for taking measurements of fish.] Bulletin, 1907 (1908), vol. XXVII, p. 79, illus.

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## GENERAL.

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## UNITED STATES.

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c. Catalogue of the aquatic and fish-eating birds exhibited by the United States National museum, by Robert Ridgway. 48 p. *Doc. 56 issued May 22, 1883.* F20-140

d. Catalogue of the economic mollusca and the apparatus and appliances used in their capture and preparation for market, exhibited by the United States National museum, by Francis Winslow. 86 p. *Doc. 57 issued June 14, 1883.* F12-293

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g. Descriptive catalogue of the collection illustrating the scientific investigation of the sea and fresh waters, by Richard Rathbun. 109 p. *Doc. 69 issued Apr. 19, 1884.* F12-296

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## WORLD'S FISHERIES CONGRESS, CHICAGO, 1893.

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*Contents.*—1. Report of the secretary of the general committee, by T. H. Bean. 2. Address of the chairman of the general committee on the World's fisheries congress, by M. McDonald. 3. The assimilation of the fishery laws of the Great Lakes, by G. A. MacCallum. 4. The decrease of food-fishes in American waters and some of the causes, by A. M. Spangler. 5. The sea and coast fisheries, by D. T. Church. 6. Our ocean fishes and the effect of legislation upon the fisheries, by J. M. K. Southwick. 7. The past, present, and future of trout-culture, by W. L. Gilbert. 8. The relation of scientific research to economic problems, by G. B. Goode. 9. Biological research in relation to the fisheries, by J. A. Ryder. 10. On the influence of light on the periodical depth-migrations of pelagic animals, by J. Loeb. 11. The investigation of rivers and lakes with reference to the fish environment, by B. W. Evermann. 12. The habits and development of the lobster, and their bearing upon its artificial propagation, by F. H. Herrick. 13. The origin of the food of marine animals, by W. K. Brooks. 14. Atmospheric and other influences upon the migration of fishes, by J. J. Armistead. 15. Some observations concerning fish parasites, by E. Linton. 16. On the food of the menhaden, by J. I. Peck. 17. Some plankton studies in the Great Lakes, by J. E. Reighard. 18. The aquarium of the United States Fish commission at the World's Columbian exposition, by S. A. Forbes. Description of the fresh and salt water supply and pumping plants used for the aquarium, by I. S. K. Reeves. Observations and experiments on Saprolegnia infesting fish, by G. P. Clinton. Report on a parasitic protozoan observed on fish in the aquarium, by C. W. Stiles. 19. Opening remarks of the chairman of the fish-cultural section of the Fisheries congress, by E. G. Blackford. 20. Statistical review of fish-culture in Europe and North America, by N. Borodine. 21. Some notes about American fish-culture, by O. Nordqvist. 22. Fish-culture in Michigan, by H. Post. 23. History and methods of whitefish culture, by F. N. Clark. 24. Methods employed at Craig Brook station in rearing young salmonoid fishes, by C. G. Atkins. 25. The propagation of black bass in ponds, by W. F. Page. 26. Fish and fishing in British Guiana, by J. J. Quelch. 27. Fish-cultural investigations at St. Andrews marine laboratory, Scotland, by W. C. McIntosh. 28. Description of the marine hatchery at Dunbar, Scotland, by T. W. Fulton. 29. The past, present, and future of the oyster industry of Georgia, by A. Oemler. 30. Deep-water oyster culture, by H. C. Rowe. 31. Breeding natural food artificially for young fish artificially hatched, by A. N. Cheney. 32. What we know of the lobster, by F. Mather. 33. Remarks on the maintenance and improvement of the American fisheries, by H. M. Smith. 34. Reforms and improvements suggested for the fisheries of Great Britain and Ireland, by J. Lawrence-Hamilton. 35. Foul fish and filth fevers, by J. Lawrence-Hamilton. 36. Recent experiments in sturgeon hatching on the Delaware River, by B. Dean. 37. The fisheries of Canada, by L. Z. Joncas. 38. The fishing industry of Lake Erie, past and present, by C. M. Keyes. 39. The fisheries of the Virginia coast, by J. T. Wilkins. 40. Notes on the Irish mackerel fisheries, by W. S. Green. 41. Past and future of the fur seal, by J. Stanley-Brown. 42. Notes on the fisheries and fishery industries of Puget Sound, by J. G. Swan. 43. Fish nets: some account of their construction and the application of the various forms in American fisheries, by C. H. Augur. 44. Statistics of the fisheries of the United States, by H. M. Smith. 45. The fisheries of Japan, by the Japanese Bureau of Agriculture. 46. On pearls, and the utilization and application of the shells in which they are found in the ornamental arts, as shown at the World's Columbian exposition, by G. F. Kunz.



## NATIONAL FISHERY CONGRESS, TAMPA, 1898.

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*Contents.*—Proceedings of the congress. Methods of plankton investigation in their relation to practical problems, by J. Reighard. The importance of extended scientific investigation, by H. C. Bumpus. The utility of a biological station on the Florida coast in its relation to the commercial fisheries, by Seth E. Meek. Establishment of a biological station on the Gulf of Mexico, by W. E. Taylor. Some notes on American shipworms, by C. P. Sigerfoos. An economical consideration of fish parasites, by Edwin Linton. The fish fauna of Florida, by B. W. Evermann. The lampreys of central New York, by H. A. Surface. The protection of the lobster fishery, by F. H. Herrick. The Florida commercial sponges, by H. M. Smith. On the feasibility of raising sponges from the egg, by H. V. Wilson. The Hudson River as a salmon stream, by A. N. Cheney. A plea for the development and protection of Florida fish and fisheries, by J. A. Henshall. International protection for the denizens of the sea and waterways, by B. W. James. The restricted inland range of shad due to artificial obstructions and its effect on natural reproduction, by C. H. Stevenson. The green turtle and the possibilities of its protection and consequent increase on the Florida coast, by Ralph M. Munroe. Some factors in the oyster problem, by H. F. Moore. The oyster grounds of the west Florida coast: their extent, condition, and peculiarities, by F. Swift. The oysters and oyster beds of Florida, by John G. Ruge. The Louisiana oyster industry, by F. C. Zacharie. The oyster-bars of the west coast of Florida: their depletion and restoration, by H. A. Smeltz. Notes on the fishing industry of eastern Florida, by J. Y. Detwiler. Oysters and oyster-culture in Texas, by I. P. Kibbe. The methods, limitations, and results of whitefish culture in Lake Erie, by J. J. Stranahan. A brief history of the gathering of fresh-water pearls in the United States, by G. F. Kunz. The red snapper fisheries: their past, present, and future, by A. F. Warren. Some brief reminiscences of the early days of fish-culture in the United States, by L. Stone. The relations between State fish commissions and commercial fishermen, by W. E. Meehan. Possibilities for an increased development of Florida's fishery resources, by J. N. Cobb. The utility and methods of mackerel propagation, by J. P. Moore. The large-mouthed black bass in Utah, by John Sharp. Florida fur-farming, by J. M. Willson, jr. Index.

## INTERNATIONAL FISHERY CONGRESS, FOURTH, WASHINGTON, 1908.

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*Contents.*—Pt. 1. Organization and sessional business. International regulations of the fisheries on the high seas [3 papers], by O. T. Olsen, C. E. Fryer, C. H. Stevenson. Work of the International fisheries commission of Great Britain and the United States, by D. S. Jordan. Some reasons for failure of fish protective legislation and some suggested remedies, by O. M. Dennis. National aspects of angling and the protection of game fishes, by H. W. Perce. Sport fishing in California and Florida, by C. F. Holder. Lobsters and the lobster problem in Massachusetts, by G. W. Field. A method of lobster culture, by A. D. Mead. Sea mussels and dogfish as food, by I. A. Field. The wholesomeness of oysters as food, by H. C. Rowe. Effects of menhaden fishing upon the supply of menhaden and of the fishes that prey upon them, by W. E. Hathaway. Effects of the menhaden and mackerel fisheries upon the fish supply, by W. C. Kendall. An improved and practical method of packing fish for transportation, by A. Sölling. A process for preserving the pearl-oyster fisheries and for increasing the value of the yield of pearls, by J. I. Solomon. Fur seals and the seal fisheries, by C. H. Townsend. Economic conditions of the fisheries in Italy, by Guido Rossati. The fisheries and the guano industry of Peru, by R. E. Coker. The fisheries of China, by Wei-Ching W. Yen. The fisheries of Japan, from a geographical standpoint, by T. Kitahara. Gold fish and their culture in Japan, by Shinnosuke Matsubara. Commercial sponges and the sponge fisheries, by H. F. Moore. The abuse of the scaphander in the sponge fisheries, by Ch.

Flégel. A practical method of sponge culture, by H. F. Moore. Sponge culture, by Jules Cotte. Experiments in the artificial propagation of fresh-water mussels, by George Lefevre and W. C. Curtis. A plan for promoting the whitefish production of the Great Lakes [3 papers], by S. W. Downing, F. N. Clark, Paul Reighard.

Pt. 2. Fish-cultural practices in the Bureau of Fisheries, by J. W. Titcomb. A new principle of aquiculture and transportation of live fishes, by A. D. Mead. Method of cultivating rainbow trout and other Salmonidæ, by C. L. Paige. Possible expansion of shad-hatchery work, by S. G. Worth. The comparative value of foods for rainbow trout and other salmonoids, by C. L. Paige. Apparatus and methods employed at the marine fish hatchery at Flödevig, Norway, by G. M. Dannevig. The utility of sea-fish hatching, by G. M. Dannevig. Propagation and protection of the Rhine salmon, by P. P. C. Hoek. Fishes in their relation to the mosquito problem, by W. P. Seal. Foods for young salmonoid fishes, by C. G. Atkins. Fresh-water shrimp, a natural fish food, by S. G. Worth. The cultivation of the turbot, by R. Anthony. The treatment of fish-cultural waters for the removal of algæ, by M. C. Marsh and R. K. Robinson. Notes on the dissolved content of water in its effect upon fishes, by M. C. Marsh. Cause of disease in young salmonoids, by Eugene Vincent. Radical prevention of *Costia necatrix* in salmonoid fry, by Johann Franke. Treatment of fungus on fishes in captivity, by L. B. Spencer. Methods of combating fungus on fishes in captivity, by C. F. Holder. A new method of combating fungus on fishes in captivity, by Paul Zirzow. Eighteen months' experience with a disease of brook trout, by Albert Rosenberg. American fishes in Italy, by Giuseppe Besana. Acclimatization of American fishes in Argentina, by E. A. Tulian. The introduction of American fishes into New Zealand, by L. F. Ayson. Naturalization of American fishes in Austrian waters, by Franz von Pirko. Causes of degeneration of American trouts in Austria, by Johann Franke. New and improved devices for fish culturists, by A. E. Fuller. A device for counting young fish, by R. K. Robinson. A method of transporting live fishes, by C. F. Holder. A method of measuring fish eggs, by H. von Bayer. An improvement in hatching and rearing boxes, with notes on continuous feeding of the fry of Salmonidæ, by G. E. Simms. Devices for use in fish hatcheries and aquaria, by Eugene Vincent. New methods of transporting eggs and fish, by W. S. Kincaid. Fishways, by H. von Bayer. A plea for observation of the habits of fishes and against undue generalization, by Theodore Gill. The habits and life history of the toadfish (*Opsanus tau*), by E. W. Gudger. Methods of studying the habits of fishes and recording their life histories; with an account of the breeding habits of the horned dace, by Jacob Reighard. A method of observing the habits and recording the life histories of fishes, by C. F. Holder. Effects of changes in the density of water upon the blood of fishes, by G. G. Scott. Internal parasites of the Sebago salmon, by H. B. Ward. Notes on the flesh parasites of marine food fishes, by Edwin Linton. Structure and functions of the ear of the squeteague, by G. H. Parker. An intensive study of the fauna and flora of a restricted area of sea bottom, by F. B. Sumner. Development of sponges from tissue cells outside the body of the parent, by H. V. Wilson. Gases dissolved in the waters of Wisconsin lakes, by E. A. Birge. Volumetric studies of the food and feeding of oysters, by H. F. Moore. A plan for an educational exhibit of fishes [2 papers], by C. F. Holder and R. W. Miner. Outline for an educational exhibit of fishes, by F. A. Lucas. A method of preparing fish for museum and exhibition purposes, by Dwight Franklin. New method of preparing fishes for museum exhibit, by J. D. Figgins. The United States Bureau of Fisheries: its establishment, functions, organization, resources, operations, and achievements, by H. M. Smith. General index.



Part 13.—UNCLASSIFIED

Part 13.—UNCLASSIFIED

### Part 13.—UNCLASSIFIED.

- Baird, Spencer Fullerton:** Purchase of Professor Poey's *Ichthyologia Cubana* by the Spanish government. Bulletin, 1883 (1883), vol. III, p. 439. F18-169
- Boeck, G.:** How to strengthen the dunes. Bulletin, 1885 (1885), vol. V, p. 38-40. F18-374
- Ffennel, Henry:** [What fish sometimes swallow.] Bulletin, 1885 (1885), vol. V, p. 78. F18-394
- Garman, Samuel:** In regard to the "sea-serpent" of literature. Bulletin, 1884 (1884), vol. IV, p. 128. F18-246
- Hanna, S. W.:** Description of an eel-like creature taken in a net at New Harbor, Maine, in 1880. Bulletin, 1883 (1883), vol. III, p. 407-410, illus. F18-153
- Hartung, G.:** An account of the Loffoden Islands of Norway. Report, 1877 (1879), p. 559-564. F16-109
- Herndon, C. G.:** Sanitary report on old Providence Island, United States of Colombia. Bulletin, 1884 (1884), vol. IV, p. 412-414. F18-352
- Johnson, George A.:** A mud slough on the Grand Banks. Bulletin, 1885 (1885), vol. V, p. 291-292. F18-444
- Kidder, Jerome H.:** Hints for emergencies. Prepared for the use of field parties of the United States Fish commission. [1877.] F11-208
- The Bower-Barff rustless iron. Bulletin, 1885 (1885), vol. V, p. 151-154. F18-394
- Magie, William Francis:** [Report upon atmospheric electricity.] Bulletin, 1889 (1891), vol. IX, p. 408-410. F18-46
- Marquette, George R.:** Extraordinary floods in the Potomac River. Bulletin, 1881 (1882), vol. I, p. 258. F18-46
- Michigan, State Board of Fish Commissioners:** Minute upon the death of Oren M. Chase, George W. Armstrong, and Charles H. Brownell. Bulletin, 1884 (1884), vol. IV, p. 83-85. F18-231
- Morris, Alfred:** [A sea-monster.] Bulletin, 1885 (1885), vol. V, p. 78-79.
- Proctor, Richard Anthony:** A marine monster. Bulletin, 1884 (1884), vol. IV, p. 55-56. F18-218
- Monster sea-serpents. Bulletin, 1885 (1885), vol. V, p. 325-328. F18-466
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- A list of the names of all persons who have been appointed commissioners of fisheries of the various States of the United States, with their addresses, and the dates of their terms of service. Bulletin, 1883 (1883), vol. III, p. 123-127. F18-119
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# INDEX TO AUTHORS.

	Page.		Page.
Abbe, W. A.	55, 196, 198	Benedict, James E.	270, 279
Abbott, Charles Conrad	84, 88, 91	Berry, Samuel Stillman	260, 262
Abernethy, A. S.	70, 203	Bertram, James G.	147, 176, 177
Achtenberg, Henrietta	28, 32, 38, 42, 43, 45, 49, 68	Besana, Giuseppe	120
Adams, A. C.	18, 167	Bettoni, Eugenio	43, 113, 120, 123, 129, 138
Adams, Andrew Leith	70	Bigelow, Henry Bryant	16
Adams, Emma Hildreth	216	Bigelow, Maurice Alpheus	270
Alexander, Alvin Burton	14, 68, 150, 151, 159, 160, 166, 176, 180, 181, 186, 189, 191, 193, 195, 203, 216, 259, 268	Bigelow, Robert Payne	270
Alger, Charles J.	29	Birge, Edward A.	21, 22, 42
Allen, Joel Aseph	165	Bissell, John H.	173, 174
Allen, Henry D.	129, 166, 167, 182, 192, 194, 196, 201, 208, 213, 214, 216, 226, 233	Blackford, Eugene Gilbert	19, 41, 47, 55, 59, 111, 117, 161, 162, 196, 205, 206, 245, 251
Allport, Morton	122, 129	Blake, William Phipps	291
Amelin, John	178	Bland, John	150
American-Canadian Boundary Commission	184	Boake, Bancroft	45
American Carp Culture Association	221	Boardman, W. H.	268
Ancher, Ernst	189	Boeck, Axel, i. e. Jonas Axel	48, 55, 178, 211, 269
Anderson, John	50, 70, 129, 176	Boeck, G.	298
Anderson, O. P.	30	Boepple, Johann Frederick	262
Anderssen, Joakim	165, 168, 175, 190, 214, 219	Bollman, Charles Harvey	54, 87
Annaniasen, Abraham	149, 177, 189, 219	Borne, Max von dem	54, 59, 114, 120, 122, 123, 138, 139, 215, 247
Annin, James	42	Borodine, Nicolas A.	51, 111, 113, 115, 134
Anthony, O. C.	125	Boston Daily Advertiser	194
Anthony, Raoul Louis Ferdinand	68, 138	Bottemanne, C. J.	70, 120, 129
Applegate, J. P.	207	Bouchon-Brandely, Germain	113, 114, 242, 247, 248, 259
Arapian, E. J.	273	Bower, Seymour	70, 137
Armistead, A. Wilson	120	Bower, Ward Taft	50, 129, 130, 149, 166, 167, 182, 192, 194, 195, 201, 208, 213, 214, 216, 226, 227, 228
Armistead, J. J.	47	Bowers, George Meade	150
Arnold, Isaac	54, 122	Bowers, Luther J.	40
Atkins, Charles G.	30, 34, 35, 45, 47, 49, 70, 99, 102, 103, 125, 129, 138, 164, 165, 168, 201, 203, 260	Brakeley, John H.	40, 59, 123, 233, 283
Atwater, Wilbur Olin	56, 70, 213, 221, 253, 287	Brant, Martin	219
Atwood, Nathaniel E.	63, 146, 165, 168, 183, 192, 214	Brevoort, J. Carson	221
Augur, C. H.	188	Brice, John J.	7, 45, 70, 99, 129, 146, 225, 230, 273
Avery, F. W.	191	Broca, P. de	68, 194, 244, 249, 253
Ayson, L. F.	121	Brocchi, P.	30, 52, 247
B.	267	Brooks, William Keith	30, 242, 243, 291
Babbitt, John O.	55, 198	Brouster, E. B.	190
Babcock, William C.	55, 104, 132, 205	Brown, J. E.	101
Babson, F. J.	197	Brown, J. J.	35
Bache, R. M.	244	Brown, James Temple	165, 225, 228, 293
Baird, George Washington	13	Brumme	30, 114
Baird, Spencer Fullerton	9, 13, 16, 18, 27, 30, 35, 41, 42, 44, 45, 47, 50, 68, 69, 81, 82, 87, 122, 126, 127, 132, 139, 145, 147, 148, 150, 159, 164, 165, 169, 171, 172, 173, 181, 186, 187, 189, 203, 204, 206, 214, 215, 219, 221, 225, 291, 298	Bucciach	273
Baldwin, Charles H.	98, 179	Buch, Sophus Andreas	45, 55, 211, 243
Ball, E. M.	201	Buck, H. H.	71, 137
Bannmeyer, M.	119	Buckingham, R. H.	167
Barber, C. H.	70, 129	Bumpus, Hermon Cary	43, 66, 208, 219, 265
Barbour, C. H.	135	Bunce, Henry C.	245
Barfurth, D.	30, 70	Burke, Charles Victor	83, 94
Barin, L. T.	47, 70	Burns, Frank	79
Barker, E. L.	55, 198	Bush, Katherine Jeanette	16, 261
Barnes, A. G.	59, 123	Butcher, E. Z.	59
Barnes, William M.	65	Caird, James T.	177
Barney, Raymond L.	238, 241, 284	Caldwell, John K.	180
Barnston, George	76, 209	California Laws, Statutes, etc.	253
Bartet, C.	75, 119, 131	California State Fisheries Commission	185
Bartlett, John R.	50	Calkins, Gary Nathan	277
Bartlett, Sylvester P.	47, 54, 112, 126	Campbell, J. B.	50, 83, 112
Battle, John D.	16, 246, 251	Canfield, Harry L.	59, 190
Bavarian Fishery Association	114	Cape Ann Breeze	153
Bayer, Hector von	138, 164	Carpenter, Charles	42
Bean, Barton A.	45, 84, 86, 90, 168	Carr, T. F. Robertson	55, 177, 210
Bean, Tarleton Hoffman	18, 30, 34, 35, 42, 44, 55, 67, 70, 74, 82, 83, 87, 88, 92, 94, 117, 122, 129, 137, 138, 165, 166, 200, 201, 205, 291, 292, 293	Carrington, William T.	161
Beardslee, Lester Anthony	14	Carswell, James	126
Beardsley, Arthur Eugene	42	Cary, H. H.	27, 43, 55, 60, 123, 132, 205
Beekley, Emma Metcalf	187	Casella, Louis P.	14
Behr, Friedrich von	59, 70, 114, 120, 123, 138, 139, 147, 217	Casto, L. P.	48
Benecke, Berthold Adolf	30, 42, 45, 48, 70, 123, 139, 147, 150, 177, 212, 293	Causans, Viscount de	114
		Cerda, Juan de la C.	118
		Certes, A.	277
		Chabot-Karlen	30, 114
		Chadwick, B. P.	78, 145, 196
		Chalker, Robert B.	55, 205
		Chamberlain, Frederick M.	30, 40, 42, 44, 48, 50, 71, 100, 130, 166, 182, 192, 194, 195, 201, 202, 208, 216, 227, 228, 233
		Chamberlain, T.	35

	Page.		Page.
Chambers, W. Oldham	120	Delawder, G. W.	135
Chapman, Pearson	55, 145, 196, 207	Delchamps, John J.	244
Cheever, Henry T.	35	Dempsey, W.	53, 205
Cheney, A. Nelson	30, 48, 71, 130	Dennis, Oregon Milton	182
Chicago Tribune	191	Derby, V. L.	193
Chittenden, Newton H.	216	Detwiler, John Y.	167, 244, 250, 257
Chittenden, Russel Henry	222, 287	Dice, Lee Raymond	166, 227, 230
Christensen, R.	187	Dickinson, Fred. W.	185
Christoffers, Harry J.	106, 227, 230	Dimmock, George	42
Church, Daniel T.	55, 145, 198	Dohrn, Anton, <i>i. e.</i> Felix Anton	292
Churchill, Edward Perry	238,	Dolge, Alfred	60, 218
239, 240, 242, 243, 244, 249, 253, 265, 266, 267, 269		Donahue, James	268
Clagett, J. C.	54	Donaldson, R. J.	60, 123
Clark, Alonzo Howard	30, 40, 78, 82, 158, 165, 167,	Donnelly, Frank L.	164, 205
169, 170, 172, 197, 198, 208, 214, 220, 226, 228, 284		Donnelly, W. J. S.	175
Clark, D. C.	30	Doolittle, A. A.	22, 30, 83, 283
Clark, Frank Nelson	30, 55,	Dorrance, C.	222
71, 99, 104, 105, 117, 126, 130, 132, 135, 137, 139		Doucot, Charles	66, 260
Clark, George A.	227	Dousman, H. F.	76, 131
Clark, Howard Walton	90, 233, 255, 256, 257, 261, 262	Downell, Benjamin Franklin	71, 112, 135, 185
Clark, Hubert Lyman	279	Downing, Seth W.	71, 137
Clarke, H. P.	71, 84, 135	Downman, R. H.	171, 233
Clinton, G. R.	34	Drake, Franklin Jeremiah	15, 19
Cobb, John Nathan	30, 48, 50, 51, 63, 71, 116, 130,	Dresser, Henry	74
149, 150, 151, 159, 160, 161, 163, 164, 166, 169, 171,		Dressler, Fletcher B.	58
180, 182, 184, 185, 187, 192, 193, 194, 195, 196, 201,		Driscoll, Edward	15, 159, 170, 171, 172, 193, 195, 259
202, 203, 208, 213, 214, 215, 216, 217, 218, 219, 220,		Ducastel, M.	114, 140
221, 226, 227, 229, 249, 267, 268, 269, 273, 284, 287		Duclos, Gilbert	54, 119
Cockrell, Theodore Dru Alison	39	Duerden, James Edwin	278
Cocks, Alfred Heneage	228	Duff, R. W.	177
Coe, Wesley Roswell	15, 278	Duke, Richard Thomas Walker	41, 60, 191
Coker, Robert Ervin	8, 27, 43, 52, 164, 175, 217, 219,	Dukehart, J. P.	233
255, 256, 257, 258, 259, 260, 261, 262, 265, 266, 287		Duncan, J. Barker	71, 115, 130, 135
Colburn, John F.	248	Dunlap, M. E.	188
Cole, Leon Jacob	17, 30,	Dunn, Horace D.	50, 71, 113, 117, 130
34, 37, 39, 40, 42, 44, 48, 60, 123, 191, 222		Dunn, Mathias	30, 63, 126
Collins, D. E.	18, 30, 48	Dunning, Philo.	35
Collins, John D.	71, 130	Dyrenforth, Robert G.	186
Collins, Joseph William	13, 15, 17, 30, 35, 42,		
48, 50, 55, 56, 63, 64, 66, 68, 78, 117, 126, 146,		Earll, Robert Edward	27, 30, 47, 48, 50, 56, 63, 78, 126,
143, 149, 150, 159, 160, 162, 165, 166, 167, 168,		127, 132, 152, 158, 160, 163, 165, 168, 169, 170, 185,	
169, 170, 171, 172, 173, 174, 175, 176, 177, 178,		187, 192, 195, 196, 197, 200, 204, 216, 219, 220, 221	
179, 187, 188, 189, 190, 191, 192, 193, 194, 195,		Eastman, Frank S.	111
196, 197, 198, 200, 201, 203, 204, 207, 208, 210,		Eben-Bauditten	42, 60, 114, 123
213, 216, 219, 220, 221, 222, 225, 226, 228, 234,		Ebert, Amos	191
240, 248, 250, 252, 253, 255, 260, 273, 278, 293		Eckardt, George	60, 123
Colson, C. Bunting	242	Eckardt, R.	56, 132
Commercial, The, Port Huron, Mich.	184	Eckardt-Libbinnen, R.	60, 123
Conklin, B. F.	199	Edmonds, Richard H.	251
Cory, E. J.	206	Edwards, Vinal N.	45, 46, 49, 87, 127, 171, 205, 206, 284
Costa, Achille	176, 177	Eigenmann, Carl H.	28,
Coste, Jean Jacques Marie Cyprian Victor	241,	30, 40, 45, 63, 66, 67, 77, 79, 82, 92, 190	
247, 248, 252, 253, 259		Eisen, Gustav	279
Cotte, Jules	273	Eldridge, John A.	258, 262
Couchman, J. W.	60, 118	Elliott, Henry Wood	42, 126, 165, 225, 226, 227
Coutance, H. A.	44	Elliott, James W.	169, 197
Cox, Ulysses Orange	52, 87, 89, 91	Ellis, J. Frank	100, 111
Coxe, Frank	169	Enders, F. H.	121
Crawford, S. M.	135	Endicott, Charles	159, 180
Creighton, R. J.	116, 121	England, National Fish Culture Association	40
Crèvecoeur, Michel Guillaume St. Jean de,		Evans, Kelly	137
called St. John de Crèvecoeur	228	Evermann, Barton Warren	9, 15, 17, 19, 21, 22, 27,
Crittenden, A. R.	56	30, 34, 35, 41, 45, 50, 54, 56, 68, 71, 72, 73, 74, 82, 83,	
Crooker, L. B.	41	84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 99, 111, 113,	
Crosby, John Schuyler	112	135, 137, 166, 167, 168, 180, 182, 190, 191, 200, 202,	
Crozier, William J.	40, 77, 291	203, 208, 225, 227, 233, 238, 240, 246, 251, 262, 292	
Cummins, George W.	222, 287	Ewart, James Coscar	27, 28, 56, 111, 127, 139, 219
Curtis, J. E.	90, 137	Exeter, Marquis of	115
Curtis, Winterton Conway	37, 256, 257		
Dall, William Healey	161, 162, 262	Farlow, William Gibson	63, 220, 283, 284
Dambeck, Carl	30, 48, 63, 158, 163, 176, 178, 179, 191	Farr, S. C.	72, 121
Damblade, Ernest	17, 240, 246, 250, 251, 258, 262, 278	Farrington, John	122
Daniell, William C.	56, 132	Fassett, Harry Clifford	111, 129, 149, 166, 182, 192,
Dannevig, Gunder Mathisen	71,	194, 195, 201, 208, 213, 214, 216, 227	
93, 115, 121, 126, 139, 267		Feddersen, A.	48, 55, 178, 292
Dantziger	176, 210	Fenton, Henry J.	132
Davis, Bradley Moore	17, 52, 283	Ferguson, Thomas B.	56, 132, 205, 206
Davis, H. B.	60, 117, 123, 222	Fesler, Bert	78
Davis, H. S.	37	Fewkes, Jesse Walter	15, 278
Day, Francis	43,	Ffennell, Henry	120, 298
45, 48, 71, 93, 130, 132, 147, 149, 179, 184, 190, 219		Fiedler	48, 72, 212
Dean, Bashford	34,	Field, George Wilton	260, 268
51, 134, 238, 239, 240, 241, 246, 247, 248, 251, 252		Field, Irving A.	30, 165, 215, 219, 222, 256, 260
De Bloise, E. T.	56, 188, 198, 214	Field, The, London	176
De Bon	247	Figgins, J. D.	291
Delano, J. S.	135	Finely, Charles I.	56, 72, 130



	Page.
Finn, W.	56, 122, 177, 210
Finsch, Otto	45, 60, 117, 123
Fisher, F. B.	50, 168
Fisher, J. G.	225
Fisher, Walter Kenrick	15, 234, 279
Fisher, William J.	72, 202
Fitzhugh, D. H.	148
Flégel, Charles	274
Fletcher, William W.	76, 137
Flint, James Milton	277
Florida Laws, Statutes, etc.	253
Fogarty, J.	273
Follett, Richard E.	135
Forbes, Robert Bennet	150
Forbes, Stephen Alfred.	30,
	31, 34, 36, 37, 38, 72, 270, 277, 283, 291
Forest and Stream	120
Foster, N. W.	48
Fowler, Gilbert	206
Fraiche, Felix	243, 247
Fraley, W. R.	135
France, Minister of Marine and the Colonies.	176, 180
France, Moniteur de la Pisciculture.	212
Frank, Johann	34, 119
Franklin, Dwight	291
Frantz Emanuel H.	135
Fraser, C. McLean.	278
Freeman	148
French, Peter	166
Frey, Emil	72, 121
Friedlaender, Oscar O.	42, 56, 198, 214
Friele, M.	163, 178, 209, 211, 214, 219, 220, 227, 228, 269
Fryer, Charles Edward	137, 185, 260, 268
Fuller, Alfred E.	139
Fuller, Cabel Allen.	240, 287, 288
Fuller, Thomas	60, 93
Fullerton, Samuel F.	137
Fulton, T. Wemyss	115
Gaines, Kemp	28, 60, 123
Gallup, B. Frank	50, 213, 214
Gamgee, John	220
Garde, Aug.	149, 177, 210, 212, 221
Gardner, A. P.	42, 80, 125, 135
Gardner, Albert A.	207
Garman, Samuel	241, 298
Gasch, Adolf	31, 60, 113, 123
Gauthier, C. W.	169
Gaylord, Harvey Russell	34, 72
Geare, Randolph I.	72
George, W. C.	273
Gerber, C.	60, 218
German Fishery Association	163
Gifford, George	56, 147
Gilbert, Charles Henry	15, 22, 40, 72, 74, 80, 83, 84, 85,
	89, 91, 92, 93, 94, 95, 165, 202, 203, 215, 244, 249
Gilbert, N. C.	32, 38, 90
Gilbert, W. L.	72, 131, 135
Gilchrist, F. C.	45
Giles, W. S.	139
Gill, Theodore Nicholas	44,
	68, 82, 87, 117, 165, 193, 260
Gillespie, Samuel	31, 60, 123
Glaser, O. C.	17, 238, 251
Glasgow Herald	228
Glen Falls Republican	72
Glennan, A. H.	36
Golden, R. A.	48
Goldsborough, Edmund Lee	21,
	41, 45, 46, 72, 74, 83, 88, 90, 92, 93, 262
Goldsmith	116
Goll, Hermann	72, 121
Goode, George Brown	7, 28, 31, 36, 37, 42, 44,
	47, 48, 50, 51, 52, 53, 54, 55, 56, 59, 62, 63, 64, 65, 66,
	67, 68, 69, 70, 72, 77, 78, 79, 81, 82, 87, 94, 99, 126,
	128, 145, 148, 149, 158, 160, 165, 183, 185, 187, 188,
	192, 194, 197, 198, 199, 208, 214, 216, 222, 225, 249
Gorham, Frederic Poole	34, 44, 258, 266, 267, 268, 284
Gould, N. E.	48
Grabill, L. R.	104
Grady, John E.	274
Grant, Isaac H.	56, 195, 198
Grave, Benjamin Harrison	255, 257
Grave, Caswell	17, 238, 241, 246, 251
Great Britain	185
Great Britain, commissioners appointed to	
inquire into the sea fisheries	147, 176, 177
Great Britain, royal commission on trawling	147

	Page.
Greeley, Arthur White	59, 84
Green, Erik H.	213, 214, 287
Green, Loren W.	34, 72, 130, 135, 146, 216
Green, Seth	73, 112, 117, 130, 135, 203, 233
Green, William Spotswood	211
Greene, Carl Hartly	73
Greene, Charles Wilson	27, 39, 40, 48, 73
Greenfield, Alfred	73, 121, 137
Greer, Rob Leon	56, 150, 160, 185, 200, 213, 215
Griffin, G. W.	259
Griffith, William	56, 132
Gross, Julius	60, 123, 218
Gudger, Eugene Willis	28, 45, 53
Gundersen, H.	64, 218
Gunnison, James W.	245
Gunther, Albert	45
Gurley, R. R.	34, 37, 277
Haack, Hermann	31, 42, 73, 130, 135, 137, 294
Habersham, William Ney A.	45, 73, 209
Habershaw, Frederick	229
Haackel, Ernest Heinrich Philipp August	22
Hahn, Clarence Wilson	37
Haime, Jules	113
Hall, Ansley	56, 186,
	196, 204, 216, 220, 240, 241, 243, 245, 251, 253, 257
Halloy, Leon d'	114
Halperine, E.	283
Hamilton, W. R.	44
Hamlen, William	56, 104, 132
Hamlin, Augustus Choate	43, 47, 73, 203
Hammond, J. P.	174
Hanna, G. Dallas	227, 234
Hanna, S. W.	86, 298
Harding, Charles William	57, 132, 134, 177, 256, 257
Harding, Garrick M.	111
Hardy, L. H.	146
Harger, Oscar	270
Hargitt, Charles Wesley	278
Harper, John A.	130
Harrell, J. Dock	87, 79, 187
Harris, Gwynn	57, 196, 207
Harron, Leighton G.	46, 81, 125, 138
Hartung, G.	298
Harvey, Moses	175
Harvie-Brown, John Alexander	234
Harz, C. O.	31
Haskell, E. E.	239
Haskell, E. H.	64, 192
Hatch, Thomas E.	76, 201
Hathaway, Walter B.	50, 198, 260
Hausser, A. E.	241, 247
Haverfield, N. T.	218
Hawkins, J. W.	31, 57
Hay, Naman	125
Hay, Oliver Perry	89, 91
Hay, William Perry	233, 265, 266, 269
Hayward, Joseph H.	175
Healy, R.	79
Hearder, William	189
Heath, Harold	227
Heath, Neil	41, 44
Hecht, Selig	40, 77, 291
Hector, James	180, 225, 228
Heincke, Friedrich, i. e., Johann Friedrich	178
Hemphill, Henry	260, 261
Hensen, Victor	22, 28, 44, 181
Henshall, James Alexander	31, 85, 100, 112, 127, 222
Hensman, John T.	54, 120
Hermes, Otto	27, 28, 48, 52, 126
Herdon, C. G.	298
Herrick, Charles Judson	27, 39
Herrick, Francis Hobart	265, 266, 267, 268, 269
Hessel, Rudolph	36,
	40, 42, 60, 73, 117, 123, 127, 138, 257, 258, 279, 283
Heyser, E.	60, 123
Hiester, Charles E.	80, 140, 191
Hildebrand, Samuel Frederick	31, 45, 57, 69, 89
Hinckley, Isaac	215
Hind, H. G.	48, 127
Hinkelmann	48, 52, 181, 225
Hobbs, James R.	225
Hobbs, Orlando	89
Hodge, E. B.	73, 130
Hoek, Paulus Peronius Cato	212, 241, 242, 243, 248
Hoffman	114
Hoffman, R. E.	288, 292
Holberton, Wakeman	73, 135

	Page.		Page.
Holden, E. C.	73, 203	Kitahara, T.	179
Holder, Charles Frederick	34, 45, 46, 167, 168, 291, 292	Kite, J. Alban.	78, 127, 139
Holmes, John F.	42, 48, 197	Klotz, J. P. J.	34, 36, 117, 139, 140
Holmes, Samuel Jackson	270	Knauth, Karl	42, 124
Homergue, Louis C. d'	57, 183, 185, 198, 216	Knight, William	183
Horst, Rutgar	241, 242, 243	Knowles, Herbert M.	36
Hovey, Horace Carter	51, 207, 217, 222	Knudsen, Henrik	214
Howard, Arthur Day	255, 256, 257	Kochs, W.	31
Howe, Freeland	17, 19	Kohlo, Charles	163
Howell, D. Y.	209	Koons, Benjamin Franklin	256, 262
Hoxie, Walter	67, 128	Kopsch, H.	116
Hoyt, W. D.	19, 283, 284	Koss, R. A.	31, 74, 136
Hubbard, W. F.	108, 130	Kostytschev, Pevel Andruvich	222, 287
Hübner, A.	36, 176	Kottbus, Handelskammer	163
Hubrecht, Ambrosius Arnold Willem	111	Krause, Hans Gunner	93, 175
Hudson, George A.	60, 85	Krause, Karl E. H.	42, 64, 69, 166, 195
Hughes, Smith E.	77, 135, 164	Krueger, A. C.	48
Hume, R. D.	216	Kumlien, Ludwig	160, 165, 173
Hunger, Oscar	60	Kunne, Karl	74, 136
Huske, C. J.	57, 73, 132, 136, 139	Kuntz, Albert	27, 28, 46, 47, 60, 77
Huxley, Thomas H.	35, 177, 242, 248	Kunz, George Frederick	258, 259, 260
		Kutchin, Howard M.	166,
			182, 192, 194, 195, 202, 213, 216, 226, 229
Ingalls, J. F.	22, 164	Labatt, Henry L.	198
Ingersoll, Ernest	163, 238, 249, 258, 261	Lailin & Co.	146, 183
International Fishery Congress	295	Lahaway	31
Isey, Frederick B.	256, 262	Laighton, Cedric	57, 205
Ito, K.	179, 218, 219, 221	La Motte, Alfred V.	113
		Land, Gordon	136
Jacobson, H.	19	Landmark, Anthon, i. e., Even Anthon	
Jacoby, Leopold	28, 52	Thomas	38, 115, 182
Jaffe, S.	114, 136	Lanman, Charles	31, 47, 57, 74, 76, 209
James, Bushrod W.	185	Latham, Silas B.	197, 200
Jann, P. F.	57, 205	Laurent, Pierre	242
Japan, Bureau of Agriculture	179,	La Valette St. George, Adolf Johann Hubert,	
	212, 228, 233, 269, 284	Freiherr von	43, 139
Jenkins, Oliver Peebles	22, 65, 77, 93, 94	Lawrence, George W.	167
Jennings, Herbert Spencer	277, 279	Lawrence-Hamilton, J.	213, 219, 220, 222, 284
Jennings, Ralph S.	219	Layet, Alexander	284
Jensen, Olaf Scheveland	57, 148, 211	Leach, Glen C.	115, 124, 134, 136
Jerrell, H. P.	73, 212	Lee, Leslie A.	17, 31, 47
Johnson, August	124	Lee, Thomas	92
Johnson, George A.	45, 298	Lefebvre, Alfred	80, 119, 125
Johnson, Robert Sidney	31, 36, 140, 283	Lefevre, George	37, 256, 257
Johnson, Samuel	61, 116, 124	Lefevre, George Shaw	177
Johnston, Edward C.	15, 159, 170, 171, 172, 193, 195, 259	Lehrs, George Lambert	189
Johnston, Joseph, & Sons	189	Leith, J. M.	177, 181, 189
Joncas, Louis Zepherin	174, 209	Lembkey, Walter I.	166, 227
Jones, C. E.	41	Lennutt, J. T.	57, 207
Jones, Ernest Lester	202, 227	Leonard, J. A.	293
Jones, J. F.	80, 125	Leonard, William L.	122
Jordan, David Starr	15, 51, 52, 54, 55, 57, 61, 63,	Leonhardt, G.	61, 124
	65, 66, 68, 69, 73, 77, 79, 80, 81, 82, 83, 84, 85,	Leslie, Charles C.	36, 64, 266
	89, 90, 91, 92, 93, 94, 95, 116, 125, 159, 165,	Levene, Phocbus Aaron Theodore	28, 287
	172, 174, 180, 184, 185, 187, 203, 215, 222, 227	Lewis, George A.	80
Jousset de Bellesme, Georges Louis Marie	80	Libbey, William	13, 14, 18
Felicien	80, 119	Libby, T. E.	260
Joyce, H. B.	14, 195	Lincoln, Benjamin	130
Juday, Chanancy	21, 22, 31, 61, 73, 84	Lincoln, Thomas	76, 201
Juel, Niels	158, 178, 210, 228	Lindenkohl, A.	19
		Linton, Edwin	31, 32, 34, 37, 38, 89, 278, 279
K., Baron von	31, 140	Ljungman, Axel Vilhelm	32,
Kabler, N. D.	124		48, 57, 127, 147, 148, 179, 189, 190, 211, 203
Karsten, Gustav	14, 44, 48, 181	Loeb, Jacques	48
Keller, H.	165, 176	London, Fish Trades Gazette	219
Kellogg, James L.	256, 257, 258, 268	London, Journal of the National Fish Culture	
Kemp, N. H.	57, 217	Association	163
Kendall, William Converse	18, 21, 31, 37, 38, 41,	Loomis, Watts T.	74, 88, 130
	43, 45, 46, 50, 53, 63, 69, 74, 80, 82, 83, 85, 86,	Lord, Henry W.	89
	87, 88, 90, 91, 92, 117, 125, 159, 167, 176, 180,	Lord, W. Scott	41
	181, 189, 191, 193, 197, 198, 218, 219, 222, 261	Lotsey, Johannes Paulus	238, 256, 284
Kennedy, B. E. B.	136	Low, D. W.	158, 174, 197
Kennedy, Clarence Hamilton	66	Low, W. F.	104, 128
Kensington, Edward Thomas	222, 287	Lowell, James Russell	293
Kenworthy, C. J.	62, 222	Lucas, Frederic Augustus	27, 66, 291
Kerbert, Coenraad	37, 120	Luce, Thomas R.	53, 87
Kerr, John W.	31, 76, 209	Lundberg, Rudolph	52, 149, 158, 163, 179, 189, 210, 212
Keyes, C. M.	184	Lyndell, Dwight	46, 54, 122, 137
Klaer, Anders Nicolai	178, 253	Lyman, Theodore	140, 169, 182, 204
Kibbe, I. P.	246	Lynchburg Advance	191
Kidder, Jerome Henry	9, 14, 41, 288, 298		
Kiel, Peter	31, 76, 209	MacCallum, G. A.	184
Kincaid, Walter S.	139	MacDonald, Rose M. E.	218, 225, 227
King, W. Z.	198	MacFarland, Frank Mace	261
Kinney, Ang. C.	187	Macgowan, Daniel J.	41, 61, 124, 127, 269
Kirsch, M.	61, 127	MacKrell, Alfred	61
Kirsch, Philip H.	22, 68, 86, 89, 91, 233, 261	Magie, William Francis	298
Kirtland, Frederick	43		



	Page.		Page.
Maitland, James Ramsey Gibson...	74, 117, 120, 130	Moser, Jefferson F.	15, 20, 74, 83, 128,
Malmgren, Anders Johan	38,	172, 186, 194, 202, 213, 214, 215, 217, 220, 238, 260	
	49, 74, 111, 113, 114, 115, 116, 179	Mosher, A. A.	54, 112, 122
Malmros, Oscar	219	Mosher, Gideon	32, 80,
Manley, John Jackson	115, 120	Mowatt, Thomas	46
Marchant, A.	124	Mulertt, Hugo	140, 191
Marenzeller, Emil, edler von	32, 113, 273	Muntadas, F.	115
Marquette, George R.	298	Murray, C. H.	43, 75,
Marsh, Millard Caleb	17, 27, 32, 34, 38, 42, 43, 44,	Murray, John	19
	49, 50, 72, 92, 130, 140, 151, 160, 166, 182, 192, 194,	Muth, H. W. C.	124
	196, 201, 202, 214, 15, 217, 227, 229, 249, 267, 284, 288,	Myers, A. H.	32
Marshall, William Stanley	32, 38, 90		
Martens, J. B.	14, 277, 283	Nansouty, Max de	257
Martin, Robert A.	61, 191	Narragansett Herald	36
Martin, Stephen J.	43,	National Fishery Congress	295
	49, 64, 79, 169, 172, 187, 188, 190, 192, 197, 211, 241	Nature, London	121
Maryland Commission of Fisheries	124	Nederlandsche Comm. voor het zoölogisch	
Maslieurat-Lagemard	74, 119	station	248
Mason, Frank Holcomb	32, 74, 137, 138	Needham, James G.	32, 277,
Mason, Harry W.	80, 112, 128	Neelley, J. N.	136
Massachusetts Laws, Statutes, etc.	183, 253	Neher	39
Mast, Samuel Ottmar	47, 69	Nelson, Edward William	62, 85, 168, 173
Mather, Fred	32,	Nelson, Julius	242
	49, 57, 61, 64, 69, 74, 87, 88, 107, 117, 119, 120, 126,	Nethercleft, Walter	76
	130, 134, 136, 137, 165, 169, 206, 243, 265, 266, 267	Netherlands Zoological Station	239
Matsubara, Shinnosuke	61, 127	New Jersey General Assembly	186
Matte, Paul	68, 117	New York Commissioner of Fisheries	32
Mattson, H.	179	New York Market Index and Journal	162
Mauriac, E.	64, 284	New York State Agricultural Society	206
Mayer, Alfred Goldsborough	15, 278	New York Sun	136
Maynard, H. J.	74, 113, 136	Nickersom, Seth	146
Mazzyk, W. St. J.	36, 199	Nicklas, Carl	32, 34, 40, 61, 124, 140, 163
McClelland, Samuel	124	Nightingale, Harold W.	256
McDonald, Marshall	16, 18, 19,	Ninni, Alexander P.	248
	32, 36, 38, 49, 57, 58, 61, 64, 74, 79, 80, 91, 99,	Nordqvist, Oscar Frithiof	21, 42, 111, 119, 260
	102, 104, 106, 109, 111, 117, 122, 124, 125, 126,	Norges Fiskeristyrrelse	178
	127, 128, 130, 133, 136, 137, 138, 139, 146, 164,	Norn, E. R.	46, 52, 80, 126, 128
	165, 171, 182, 185, 186, 196, 198, 202, 203, 252	Norris, Thaddeus	76, 131
McDowell, W. W.	207	Norsk Fiskeritidende	292
McGehee, Montford	233	North, Paul	268
McGregor, R. C.	83, 95	Nowicki, M.	164
McIntosh, William Carmichael	28, 115, 292	Nussbaum	28, 138
McKennie, M.	164	Nutting, Charles Cleveland	15, 278
McLain, Melvin	197	Nye, Willard	15, 32, 43, 45,
McMenamin & Co.	267		53, 67, 79, 92, 169, 175, 193, 198, 209, 261, 265, 268
McQueen, Alexander	209		
Mead, Albert Davis	140, 215, 267, 280	Odwards, J. N.	118
Medary, Charles S.	124	Oemler, A.	245, 254
Meehan, W. E.	182	Oesterbol, A.	32, 45,
Meek, Seth Eugene	21,	Oil, paint, and drug reporter	229
	52, 72, 83, 85, 86, 87, 88, 89, 90, 95, 261, 292	Olsen, O. T.	185
Melbourne, Argus	121	O'Malley, Henry	49, 75, 130, 202
Merchant, George	79, 187, 197	Oregonian	268
Merriam, Clinton Hart	43, 88, 225	Ortmann, Arnold Edward	15, 270
Metcalf, Martin	74, 124, 136, 137	Osborn, John H.	58, 205
Meyer, Heinrich Adolf	44, 58, 127, 181	Osborn, Raymond C.	17, 279
Michigan State Board of Fish Commissioners	298	Osgood, Wilfred Hudson	225, 227
Miescher-Rüsch, F.	40, 74	Osterhout, P. M.	206
Milan, Thomas	225	Oterendorp, C. G. von	276
Miller, John F.	67, 128		
Miller, N. B.	36	Packard, Alpheus Spring	16
Miller, W. B.	183	Page, George Shepard	124
Milligan, John D.	89	Page, William F.	32, 40, 43, 54, 58, 75,
Milner, James W.	22, 32, 38,		99, 122, 133, 136, 137, 138, 139, 140, 190, 191
	43, 44, 46, 49, 58, 74, 76, 82, 91, 107, 111, 133,	Paige, Charles L.	32, 75, 136
	137, 139, 146, 148, 157, 164, 170, 171, 173, 184, 209	Palmer, B. D.	61, 124
Miner, Roy Waldo	291	Palmer, George H.	172, 183
Mitchell, Philip Henry	238, 240, 241, 243, 256, 284	Pancernius, P.	32, 40
Mitsukuri, Kakichi	116, 179, 233, 248, 257	Parker, George Howard	27, 40, 51, 78, 225, 227, 266
Möbius, Karl August	32, 140,	Parramore, T. H.	233
	147, 176, 181, 212, 238, 239, 242, 243, 247, 248, 253	Pasco, I. D.	61, 124
Moenkhaus, William J.	68	Patterson, C. P.	19
Monroe, Ralph M.	233, 273	Paulsen, Paul George	164
Moore, B. V.	246	Pavesi, Pietro	46, 53, 115
Moore, C. R.	258	Pearse, Arthur Sperry	28, 32, 38, 42, 43, 45, 49, 55, 68
Moore, Emmeline	140, 283	Pearson, John M.	36
Moore, Henry Frank	15, 17, 21, 28, 32, 39, 43, 44,	Peck, James I.	22, 32, 33
	49, 51, 58, 64, 65, 88, 100, 148, 159, 176, 180, 181,	Peebles, M. T.	136
	189, 193, 194, 196, 218, 219, 238, 239, 240, 241, 242,	Peirce, Milton P.	41, 61
	243, 244, 245, 246, 249, 250, 251, 253, 270, 273, 274	Peixotto, Benjamin F.	176, 180
Moore, John Percy	28, 79, 127, 148, 197, 279	Perce, H. Wheeler	165, 182
Moore, Thomas J.	117	Perrin, M. L.	130, 267
Moore, I. R.	74	Pettit, Robert	246
Mordecai, E. R.	32, 58	Peyrer, Karl	113, 158, 176, 177, 184, 186
Morgan, George	74, 88	Phillips, Barnet	45,
Morris, Alfred	298		49, 61, 64, 67, 79, 92, 117, 124, 174, 197, 200, 222
Morriss, T. W.	61, 124	Piepmeyer, L. W.	17
Moseley, Henry Nottidge	43, 283	Pierce, H. D.	36, 70, 85

	Page.		Page.
Pierce, H. H.	243, 245	Russia	184
Pierce, John	136	Rutherford, Alexander J.	116
Pierre, H. J.	136	Rutter, Cloudsley	28
Pieters, Adrian John	283		33, 34, 45, 46, 49, 75, 83, 84, 91, 225
Pigg, L. H.	124	Ryder, Francis W.	193
Pilsbry, Henry Augustus	270	Ryder, John Adam	9, 27, 28
Pirko, Franz von	119		29, 33, 34, 35, 38, 40, 41, 42, 44, 46, 50, 51, 53, 58, 61,
Pitman, J. Talbot	39, 146		63, 64, 65, 75, 78, 79, 80, 81, 126, 127, 133, 134, 138,
Playfair, Lyon Playfair	61		139, 165, 207, 217, 226, 238, 239, 240, 241, 242, 243,
Poe, y Aloy, Felipe	85		245, 250, 253, 256, 257, 260, 261, 284, 287, 291, 292
Poincy, J. W. de	85, 244	Sacramento Record	161
Polenz, Chamberlain von	114	Sacre, O.	36
Polk, William R.	58, 200	Safford, William Edward	94
Pond, Raymond Haines	283	Sampson, M. R.	49
Pope, Thomas E. B.	21, 89, 117, 239, 240, 245, 250, 253	Sanford, F. C.	228
Poppe, Robert A.	61, 112, 124	San Francisco Bulletin	193, 225
Popular Science Monthly	140	San Francisco Chronicle	149
Post, Hoyt	112	San Francisco Examiner	195
Potts, Edward	273	San Francisco, Weekly Bulletin	202
Powell, Samuel	172, 183	Sars, George Ossian	14,
Pratt, H. S.	38		29, 33, 39, 49, 50, 64, 115, 158, 178, 209, 211, 269
Pratt, K. B.	75, 130	Sawyer, J. N.	46, 53
Preble, Edward Alexander	225, 227	Scherzer, Karl von	181
Prince, E. E.	44, 121, 137, 260	Schieffelin, W. H., & Co.	215
Proctor, A. H.	225	Schmidt, Waldo L.	15,
Proctor, Richard Anthony	14, 298		159, 170, 171, 172, 193, 195, 259
Prussia, Kommission zur wissenschaftlichen		Schroeder, Seaton	20
Untersuchung der deutschen Meere in		Schultz, Alexander	163,
Kiel	14, 49, 181		180, 181, 211, 212, 214, 215, 217, 227
Puysegur, M.	242, 243, 284	Schwaab	33
		Schwab, L.	36
Quarles, J. P.	43	Schwatka	166
Quattlebaum, Paul	33, 61, 191	Scotch Fisheries Improvement Association	164
Quelch, J. J.	93, 175, 21	Scotland, Fishery Board	93, 147, 177, 184
	6	Scott, George G.	44
Radcliffe, Lewis	28, 33, 51, 68, 159, 170, 217, 218, 230	Scudder, Charles W.	7, 41
Rankin, E. P.	15, 159, 170, 171, 172, 193, 195, 259	Scudder, Newton Pratt	69,
Rasch, Halvor Heyerdahl	39, 115, 240, 248		149, 160, 165, 187, 194, 195, 220
Rathbun, Mary Jane	15, 270	Seagle, George A.	33, 35, 41, 75, 99, 136
Rathbun, Richard	9, 14, 15, 16, 17, 18, 19, 20, 21, 22,	Seal, William P.	33, 35, 46, 138, 291, 292
	27, 33, 36, 39, 46, 49, 64, 78, 90, 92, 126, 127, 128,	Seale, Alvin	94
	131, 134, 135, 146, 159, 165, 168, 170, 171, 172, 173,	Seed, William	116
	174, 175, 183, 186, 187, 192, 197, 198, 202, 203, 204,	Seely, Uriah	169
	207, 230, 240, 241, 244, 246, 247, 249, 250, 251,	Sekizawa, Akekio	33, 75, 116
	252, 262, 265, 267, 268, 269, 273, 274, 279, 280, 288	Sellers, L. H.	174
Ravenel, William de Chastignier	9,	Selys-Longchamps, Edmond, i. e., Michel	
	34, 44, 67, 104, 127, 128, 134, 200, 245, 292, 293	Edmond Selys de	114, 147, 184
Raveret-Wattel, C.	33, 75, 113, 119, 131, 140, 266	Seymour, Charles	116
Redding, B. B.	76	Sharp, John	55, 122, 138
Redding, Joseph D.	43, 61, 117, 124, 148	Shears, E. E.	117
Redmond, Roland	75, 136	Sherdon, Ralph Edward	40
Reed, Dwight T.	179	Sheley, G. A.	146
Reeves, I. S. K.	292	Shepard, Joseph	168, 205
Reichardt, E.	39	Shephard, Isaac F.	116
Reighard, Jacob Ellsworth	21,	Sherman, R. U.	131
	22, 33, 46, 61, 87, 298	Sherwood, George H.	46, 49, 87, 258, 267, 268
Reighard, Paul Roby	137	Shinkle, A.	191
Reighardt, Edwards	140	Shira, A. F.	255, 256, 257, 258
Reisenbichler, G. F.	28, 138	Shore, S. A.	269
Renard, A.	19	Shotwell, J. R.	39
Renaud, J.	241, 247	Shufeldt, Robert Wilson	27, 52, 298
Rhode Island General Assembly	170, 172, 183	Siebold, C. Th. E., von	61, 127
Rhode Island General Assembly, Senate Com-		Sigerfoos, Charles Peter	255
mittee on Fisheries	146	Siglin, Zachary T.	203, 225
Rice, Henry J.	44, 58, 133	Siler, Andrew L.	90, 146
Rich, Willis H.	39, 41, 49, 75, 131	Siler, James W.	180
Richardson, Harriett	15, 269, 270	Silverster, Charles Frederick	27, 66
Richardson, Robert Earl	94	Simmons, Newton	124
Riddle, George W.	51, 126	Simms, George E.	33, 42, 43, 75, 139, 283
Ridgway, Robert	293	Simonsen, Carl	210, 219
Riley, Charles Valentine	43, 61	Simpson, Charles Torrey	255, 256, 259, 261, 262
Ritter, Homer P.	244, 249	Singley, J. A.	262
Roberts, Winthrop A.	267	Slack, James H.	76, 112, 131, 148, 205
Robeson, John S.	180	Slade, Elisha	49, 225, 234, 259
Robinson, E. M.	34	Small, E. E.	185
Robinson, Robert K.	139	Smart, Goldsmith, and Johnson	116
Robinson, W. Russell	75, 117	Smeltz, H. A.	239, 244
Rockwood, A. P.	76, 112, 131	Smith, J. K.	177, 178, 220
Rogers, Charles G.	278	Smiley, Charles Wesley	7, 8,
Rognerud, Carl	64, 126		21, 22, 29, 41, 55, 62, 80, 81, 99, 118, 122, 124, 125,
Roosen, August R.	220		131, 133, 136, 140, 150, 158, 159, 161, 165, 173, 188,
Root, Henry T.	268		191, 198, 202, 204, 214, 218, 222, 225, 228, 291, 298
Rosenberg, Albert	34, 75	Smith	163
Rossati, Guido	177	Smith, A. C.	265, 268
Rowe, Henry C.	241, 244, 253	Smith, Albert W.	266, 287
Rowley	36	Smith, Amos	163
Rubelius, H.	267	Smith, E. L.	75, 131
Ruge, John G.	241, 250, 253, 254, 274	Smith, Everett	53, 64, 133
Rumpff, Carl	247, 253		



	Page.		Page.	
Smith, H. Stephenson	121	Swett, S. B.	39	
Smith, Hugh McCormick	7, 8, 9, 16, 27, 29, 33, 35, 36, 38, 41, 43, 44, 46, 49, 50, 51, 53, 55, 56, 58, 66, 67, 72, 75, 79, 81, 83, 84, 85, 86, 87, 88, 89, 90, 91, 94, 100, 112, 118, 122, 124, 125, 126, 131, 133, 137, 146, 147, 149, 150, 151, 152, 153, 154, 155, 156, 157, 159, 160, 161, 162, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 180, 186, 187, 188, 189, 190, 196, 197, 198, 199, 200, 201, 202, 203, 204, 206, 207, 208, 210, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 225, 227, 228, 233, 241, 242, 246, 249, 250, 251, 252, 253, 256, 258, 259, 260, 261, 265, 267, 268, 269, 273, 274, 284, 292	17	Talbot, Arthur W.	39
Smith, James A.	17	Tanner, Zera Luther	13, 14, 16, 17, 19, 20, 21, 49, 79, 107, 126, 146, 167, 170, 171, 174, 181, 187, 197, 199, 217, 226, 291	
Smith, Sanderson	17	Tarr, Ralph Stockman	64, 126, 192	
Smith, Silas B.	75, 136	Taylor, Fred W.	104, 288	
Smith, Sydney Irving	16, 33, 76, 201, 261, 269, 277	Taylor, Harden Franklin	36, 39, 62, 78, 189, 218, 222	
Smithers, E. J.	116, 124	Taylor, J. Manigault	63	
Sneed, William	248	Taylor, W. Edgar	292	
Snell, Merwin P.	182	Teherkassoff, P.	191	
Snell, Merwin-Marie P.	157, 173, 217	Test, Frederick C.	233	
Snodgrass, Robert E.	225	Texas Farm and Ranch	125	
Snow, Julia Warner	22, 284	Thatcher, James K.	33, 76, 201	
Snyder, John Otterbein	21, 75, 84, 88, 89, 90, 92, 94, 291	Thomas, Adrian	215, 222, 284, 287	
Société Nationale d'Acclimation de France	220	Thompson, Edward	62, 222	
Solling, A.	220	Thompson, Edward H.	47, 53	
Solomon, John I.	244, 259	Thompson, Joseph C.	85	
Soper, Adelbert	199	Thompson, Millett T.	265, 266	
Soudakevitz, Theodore	116, 147	Thompson, W. T.	137	
Southall, John B.	221, 233, 258, 262	Thorarinsson, Bened. S.	115, 177, 184	
Southwell, Thomas	177, 210, 227, 228	Thorsteinson, Arni Bjarnason	33, 69, 149, 177, 210, 219, 221	
Southwick, J. M. K.	39, 172, 182, 183, 199	Throckmorton, S. R.	76, 80, 118, 128, 164	
Spangler, A. M.	39, 146	Tibbetts, N. V.	64, 146, 192	
Sparks, George L.	215, 222, 229, 230	Titcomb, John W.	35, 99, 112, 113, 137, 140, 283	
Spencer, Evelyn	218	Tölke, C.	39	
Spencer, Leonard B.	35	Tomlin, W. David	138	
Spencer, O. M.	180	Tower, Ralph Winfred	35, 39, 78, 213, 214, 220, 287	
Spinney, Benjamin H.	192	Townsend, Charles Haskins	14, 90, 151, 153, 155, 156, 157, 163, 167, 172, 173, 191, 197, 202, 206, 208, 217, 227, 228, 240, 241, 246, 249, 250, 252, 259, 268	
Stabler, Edward	124	Townsend, Eben	227	
Stabrowski, Xavier von	35, 125	Treadwell, Aaron Louis	15, 279	
Stange, J.	140	Treskow-Weissagk, von	115, 125	
Stanley, E. M.	112	Tressler, Donald Kiteley	221	
Stanley-Brown, Joseph	225, 227	Trolle, C.	64, 177, 210, 219, 221	
Stapleton, Mortimer Freeman	31, 140	True, Frederick William	15, 160, 165, 169, 171, 173, 215, 226, 229, 233, 234, 293	
Starbuck, Alexander	228	Trumbull, J. Hammond	226	
Starkey, George A.	136	Trybom, Filip, f. e., Arvid Filip	62, 76, 121, 125, 212	
Starks, Edwin Chapin	15, 66, 93, 225	Tulian, E. A.	118	
Stearns, Robert Edwards Carter	244, 257, 260, 261	Tully, W. B.	46	
Stearns, Silas	33, 165, 168, 174, 200	Turner, Lucian McShan	190	
Stearns, Winifrid Alden	175, 209, 215, 227, 228	Turner, William	47	
Steedman, I. G. W.	125	Tuttle, J. S.	136	
Stejeger, Leonhard Hess	225, 227	Tybring, Oscar	41	
Stenzel, Alexander	138	Ulrey, A. B.	27	
Sterling, C.	49	U. S. Bureau of Chemistry	288	
Sterling, E.	76, 131, 137, 146, 268	U. S. Bureau of Fisheries	7, 8, 9, 13, 17, 18, 19, 20, 21, 27, 33, 36, 38, 43, 47, 51, 58, 6, 76, 85, 94, 99, 100, 102, 111, 112, 122, 126, 127, 128, 131, 132, 133, 134, 135, 137, 139, 140, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 183, 186, 188, 189, 193, 197, 200, 201, 202, 204, 207, 209, 215, 218, 220, 221, 226, 227, 228, 234, 245, 246, 249, 250, 251, 252, 253, 257, 258, 259, 260, 268, 274, 277, 283, 284, 291, 293	
Sterling, Williams	230	U. S. Commissioner of Fisheries	7, 8, 9, 13, 14, 16, 18, 33, 35, 39, 45, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 118, 122, 125, 127, 128, 131, 132, 134, 138, 148, 171, 172, 182, 186, 188, 189, 193, 195, 196, 197, 199, 201, 202, 203, 204, 205, 206, 207, 208, 210, 215, 217, 221, 222, 228, 230, 238, 241, 245, 249, 250, 251, 254, 273	
Stevens, M. E.	85	U. S. Congress, House	182, 185, 186	
Stevenson, Charles Hugh	49, 133, 148, 149, 161, 170, 185, 188, 193, 199, 200, 204, 205, 206, 214, 215, 216, 217, 219, 220, 221, 229, 238, 245, 246, 249, 250, 251, 254, 260, 268, 274, 294	U. S. Congress, House Committee on the Judiciary	182	
Stiles, Charles Wardell	38, 278	U. S. Hydrographic Office	198	
Stillwell, E. M.	41, 131, 164	U. S. Lighthouse Board	19	
Stirling, A. B.	35, 76	U. S. President (Wilson)	230	
Stone, Livingston	33, 35, 36, 41, 47, 49, 76, 99, 100, 101, 108, 111, 113, 131, 133, 136, 139, 187, 201, 204, 217	Utter, William	191	
Storer, Francis Humphrey	189	Utterback, W. I.	269	
Stover, E. S.	125	Vail, David A.	49	
Stowe, William	118	Vail, David F.	53, 199	
Stranahan, J. J.	21, 36, 42, 50, 76, 99, 100, 128, 138	Valéry-Mayet, Michel	35, 76, 119, 131	
Strange, J.	164	Van Antwerp, W.	62, 125, 218	
Stringham, Emerson	91, 184	Van Denburg, John	234	
Ström, Boye	158, 178, 211, 212, 253	Van Hook, J. C.	187, 190	
Strüvy, R.	123	Van Matter, J. H.	53, 88	
Stull, D. C.	229			
Sturr, Charles H.	43			
Suckley, George	76			
Sullivan, Michael Xavier	27, 39			
Sumner, Francis Bertody	17, 41, 44, 277, 284			
Surber, Thaddeus	38, 257			
Surface, H. A.	43, 47, 49, 51			
Swain, Joseph	63			
Swan, James Gilchrist	41, 58, 65, 165, 174, 188, 193, 196, 201, 204, 221, 225, 227, 280, 284, 298			
Sweden, Statens Fiskeridministration	212			
Swetisch, Joseph	113			

	Page.		Page.
Vaughan, Thomas Wayland.....	278	Wilkins, J.....	171
Veckenstedt, Edm.....	62, 115, 125	Willequet, E.....	114, 125
Verrill, Addison Emory.....	14, 16,	Williams & Co.....	229
18, 33, 37, 238, 239, 249, 261, 269, 270, 273, 277, 279		Willis, H.....	59, 206
Vincent, Eugene.....	35, 76, 138, 139	Willson, J. M.....	229
Vinciguerra, Decio.....	43, 113, 120, 129, 138	Wilmot, Samuel.....	77, 118, 131, 147
Vosmaer, G. C. J.....	273	Wilson, Charles A.....	77, 137
Vrasski, Vladimir Pavlovitch.....	29	Wilson, Charles Branch.....	8,
		33, 38, 140, 261, 262, 265, 270, 277	
Waage, Peter.....	213	Wilson, C. H.....	137
Wagner, Christian.....	47, 61, 114, 127, 140	Wilson, Edmund Beecher.....	270
Walke, E. H.....	63	Wilson, Henry Van Peters.....	29, 80, 273
Walker, C. H.....	76, 131	Wilson, Samuel.....	121
Walker, E. P.....	217	Wilson, Thomas.....	81, 119
Walker, Ernest.....	43	Winslow, Francis.....	239,
Wallem, Frederik Meltzer.....	134,	240, 244, 246, 250, 252, 258, 261	
146, 161, 163, 166, 188, 215, 218		Winslow, George.....	33
Waller, Withers.....	207	Witcher, W. F.....	209
Wallich, Claudius.....	29, 138	Wood, M. L.....	174
Walpole, Spencer.....	35	Wood, William Maxwell.....	13,
Ward, F. M.....	76, 88, 131	59, 79, 102, 128, 134, 139, 173, 174, 206, 245, 266, 267	
Ward, Henry Baldwin.....	38, 76, 202	Woolman, Albert J.....	85, 86, 87, 89, 92
Ward, Lester Frank.....	283	World's Fisheries Congress.....	294
Warner, J. S.....	43	Worth, Stephen G.....	29, 33, 34, 44, 47, 59, 62,
Warren, Andrew F.....	200	68, 80, 99, 105, 112, 125, 128, 134, 138, 139, 204, 206	
Warren & Co.....	200, 218	Worthington, John.....	178, 184
Washburn, F. L.....	36, 249	Wozelka-Iglau, Karl.....	34, 267
Washington Laws, Statutes, etc.....	254	Wray, Leonard.....	116
Washington Legislature.....	183, 184	Wright, A. H.....	234
Washington Post.....	36	Wright, Abel A.....	62, 125
Waterbury, E. B.....	77, 164	Wright, Harris n.....	59, 164, 206
Watson, W. C.....	39, 77, 148, 204	Wright, Henry.....	255
Way, D. L.....	205	Wright, J. W. A.....	43
Webb, John G.....	36	Wright, R. Ramsey.....	37
Weber, Max William Carl.....	259	Wyman, Jeffries.....	47
Webster, H. E.....	279	Wyoming Historical and Geological Society,	
Weddige.....	29	Wilkes-Barre, Pa.....	59, 206
Weigelt, C.....	36		
Welsh, William Welsh.....	68, 259	Yarrow, Harry Crécy.....	59, 77, 148, 204, 205, 206
Wengen, von der.....	113, 114, 115, 116, 140	Yeager, B. S.....	257
Wergeland, N.....	33, 41, 49, 115	Yen, Wei-Ching W.....	179
Wharton, Joseph.....	59, 185, 199	Yhlen, Gerhard von.....	179, 211, 212, 253
Wheeler, L. T.....	62, 125	Yoakum, F. L.....	62, 125, 283
Wheeler, William Morton.....	270	Yost, John.....	62, 125
Whitcombe, W. P.....	77, 93, 121		
White, B. B.....	37	Zacharias, Otto, <i>i. e.</i> , Emil Otto.....	34, 39, 42
White, C. M.....	50, 62, 125	Zacharie, F. C.....	245, 250, 254
White, George F.....	213, 214, 215, 222, 284, 287	Zeller, George A.....	218, 222
Whitman, E. C.....	260	Zenk, F.....	62, 120, 125, 163
Widgren, Hjalmar.....	33,	Zentz, F.....	62
59, 147, 158, 179, 181, 187, 211, 212, 220, 221, 222		Zirzow, Paul.....	35
Wigg, George.....	41, 44		
Wilcox, Joseph.....	37		
Wilcox, William A.....	17, 18, 59, 64, 148, 149, 150, 151,		
154, 156, 158, 159, 161, 162, 165, 167, 168, 169, 172,			
175, 187, 189, 190, 192, 193, 195, 197, 204, 208, 209,			
214, 215, 217, 220, 228, 250, 251, 252, 253, 259, 298			











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